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Introduction to testRigor

testRigor is an Al Agent that allows anyone to create end-to-end tests from an end user's perspective using plain English, therefore eliminating excessive test maintenance related to locator changes. testRigor supports testing on the following platforms:

- Web testing (Windows, MacOS, Ubuntu) and Mobile Web testing on iOS and Android
- · Native and Hybrid Mobile App testing for iOS and Android
- · Native Desktop applications testing

With testRigor, you can perform various types of testing, including:

- · Acceptance testing
- · Smoke testing
- · Regression testing
- System (end-to-end) testing
- API testing
- · Visual testing
- · SMS and phone call testing
- · 2FA and Captcha testing

To create your end-to-end tests, you have several options:

- Leverage testRigor's Generative AI to create tests based on descriptions
- Write tests from scratch using plain English commands (See this documentation for help)
- Use testRigor's record-and-playback tool

Setting Up an Account

testRigor can be highly customized according to your needs. For the most recent pricing information, please contact our friendly sales team. Here are some options to consider:

- · Cloud (default) or on-premise
- Windows, MacOS, Ubuntu, iOS, Android, the number of devices, etc.
- Number of parallelizations for faster test execution speed

To set up an account, visit https://testrigor.com/sign-up/. Select a free public plan or a free trial depending on your preference.

Creating Your First Codeless Test Cases

Tutorial for creating your first test case:

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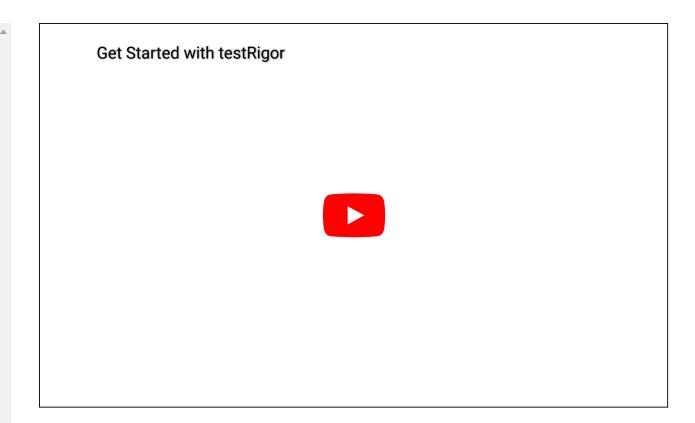
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All video tutorials: https://testrigor.com/tutorials/

All recent public test cases https://app.testrigor.com/public-tests.

See more details on step-by-step test creation here.

testRigor English-language support documentation

The goal of testRigor is to allow you to write your tests in your way of saying it in plain English. It is extendable by allowing you to <u>support your own phrases</u>. And you might want to get familiar with <u>test automation best practices</u> and, more importantly <u>testRigor Best Practices</u>.

You can click on elements with click "Submit", enter data with enter "Peter" into "First Name" and validate with check that page contains "Welcome, Peter!".

Table of Basic Commands

We support a vast variety of commands. The list below contains many examples of how to express them.

Press Ctrl+F to search	Action	Options	Example
LANGUAGE DOCUMENTATIO	N^ Click		
Getting Started guide	CLICK	<pre>double, right, middle, long,</pre>	click "cart"
Basic Commands		times, in a context of,	example or:
Reusable Rules (Subroutines)		using the mouse, using	click on the 3rd "hello" 5 times
Referencing locations		javascript, without	example or:
Using variables		scrolling, using OCR,	<pre>click "chrome" in the context of "Pixel 3 XL"</pre>
Loops		using OCR only	<u>example</u>
Validations			or:
Visual Testing			click in the middle of the screen
Working with Tables			example or:
Conditional execution			double click on the 3rd "hello"
API Testing			example
Uploading files			or:
Phone calls			right click on the 3rd "hello"
SMS messages (Phone Text)			example or:
Login support			middle click on the 3rd "hello"
Email testing			Note: You can use middle click to open links in a new tab
Browser cookies, localStorage, sessionStorage, userAgen	t		<pre>example or: click "Best value plan" using OCR</pre>
Comments			example
Audio Testing			or:
Database Query			long click on the 3rd "hello"
Chrome Extension Testing			For web testing you can specify the way we click on an ele as follows:
Captcha resolution			click on "hello" using javascript
Scan QR Code			<u>example</u>
ADVANCED	^		or:
AUTOMATE TESTING TABLES	S^		click on "hello" using the mouse
JSONPATH OVERVIEW	^		exampleNote: In headless mode this option will be ignored as the only met
REGEX SUPPORT	^		available now is javascript
SIMPLE TEMPLATES	^		<pre>or: click on "hello" without scrolling</pre>
WHAT IS BOOLEAN LOGIC	^		Note: You can use "without scrolling" to prevent testRigor's default
	•		behavior (scroll to the element before the click). or:

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Action	Options	Example
		<pre>click on image from stored value "Logo" click on image from stored value "Logo" with less th "10" % discrepancy click on the 6th element by image from stored value "logo" with less than "10" % discrepancy</pre>
		Note: This sample uses an image stored with the name "Logo" in '
		Data". The image is used to identify the location of the click. For ex
		this type of click is useful when you need to click on an image map
		default discrepancy is 20%.
		We also support mobile-specific commands to go to the ho
		screen or review recently used apps.
		To click at Home Button is available to mobile Android and
		using the commands:
		press home click home press home button click home button
		To click the Recent Button is available on mobile Android u
		the following commands (Android only as iOS doesn't have
		button):
		press recent
		click recent
		press recent button click recent button

Press Ctrl+F to search	Action	Options	Example
LANGUAGE DOCUMENTATION	.0	•	•
Catting Started guida	O'generate	Simple Template,	Generate a unique email in testrigor-mail.com domain:
Getting Started guide		unique email,	<pre>generate unique email, then enter into "Email" and save as "newEmail"</pre>
Basic Commands		unique name,	
Reusable Rules		RegEx, Google authenticator	example Generate a unique name:
(Subroutines)		code	generate unique name, then enter into "Name" and sav
Referencing locations			as "generatedName"
Using variables			<u>example</u>
Loops			Generate a unique phone number:
Validations			<pre>generate from template "###-###-###", then enter in "Phone" and save as "generatedPhone"</pre>
Visual Testing			example
Working with Tables			Generate a unique string of letters/numbers:
Conditional execution			generate from template
API Testing			"%**************************, then enter int "Description" and save as "generatedDescription"
Uploading files			<u>example</u>
Phone calls			Generate unique the date and time with unique parameters
SMS messages (Phone			<pre>generate from template by string with escaped parameters "\${nowDateTimeIso}-*******", then ente</pre>
Text)			into "Data" and save as "generatedData"
Login support			<u>example</u>
Email testing			Generate an email address in a custom domain:
			generate from template "\$************************************
Browser cookies, localStorage,			then enter into "Email" and save as "newEmail"
sessionStorage, userAgent			<u>example</u>
Comments			Generate multi-line:
Audio Testing			<pre>generate from regex text starting from next line and ending with [END]</pre>
Database Query			<pre>[a-z0-9]{18} [END], then enter into "JumboInput" and save as "JumboInput"</pre>
Chrome Extension Testing			
Captcha resolution			example Generate and type:
Scan QR Code			generate from template "%\$\$\$\$\$\$\$", then enter and
ADVANCED			save as "generatedName"
			example Congrate and save only:
AUTOMATE TESTING TABLES			Generate and save only:
JSONPATH OVERVIEW			<pre>generate from regex "[A-Z][a-z]{30}", and save as "generatedName"</pre>
REGEX SUPPORT			<u>example</u>
SIMPLE TEMPLATES ^			Generate Google authenticator time-based one-time passw
WHAT IS BOOLEAN LOGIC ^			(TOTP) code for 2-step or multi-factor authentication. It nee user QRCode saved in a stored value or the user text secre
WHAT IS BOOLEAN LOGIC ^			generate the code:

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Action	Options	Example
		generate google code from stored value "qr-code-imag
		and save it as "code" generate totp code using "mysecret" and save it as
		"code"
		<pre>generate pin with totp from stored value "myStoredSecret" and save it as "code"</pre>
		setup and example
Penter	enter, tab,	<pre>enter stored value "actionNotes" into 3rd "Notes"</pre>
	escape,	
	delete,	example
	backspace,	Note: Enter supports selects/dropdowns/checkboxes/etc.
	ctrl+a, arrow	For checkboxes, you can do the following:
	right, arrow left, arrow	<pre>enter "1" into "my_checkbox"</pre>
	up, arrow	example
	down, go,	For enter, tab, escape, delete, backspace, ctrl+a, arrows or
	search, send,	Android-specific go, search, send, next, previous, done:
	next, previous, done	enter enter into "Notes"
		example
		For multi-line inputs:
		<pre>enter text starting from next line and ending with [END] line1 line2[END] into "Notes"</pre>
		example For selects or dropdowns:
		select "code or value" from "MySelect"
		example
		*Note: Avoid using the "enter into" command when the curs
		already focused on the desired field. For these cases, use
		"type" command instead.
		It is also possible to select an option by position in selects dropdowns:
		<pre>select 1st option from "MySelect" select second option from "MySelect"</pre>
		select option 10 from "MySelect"
		*Note: Due to the differences required for testRigor to inter
		with desktop applications (i.e., browsers) versus the web
		application UI, the "select" commands were created in orde
		interact with native browser dropdowns/selects that are tag <select> in the dom. If your dropdown is a custom dropdow preferable to interact with it as a manual user would (i.e., v</select>
		clicks, scrolls, etc).

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Action	Options	Example
Ptype	enter, tab, escape, delete, backspace, ctrl+a, arrow right, arrow up, arrow down, go, search, send, next, previous, done	It should be mainly used for typing free text into input field may type text without referencing an input field if the previsite has already placed the cursor within the input field you to use: click on "Notes" type "This is a test." example For multi-line inputs: click on "Notes" type text starting from next line and ending with [line1 line2 line3[END]] example Press keyboard keys: type enter example Or you can press arrow keys like this: type arrow right
copy and paste text	Copy selected text (highlighted by either double clicking of dragging the mouse) to the clipboard: copy selection to clipboard copy to clipboard copy selection copy Copy text from string (non-headless only): copy to clipboard value "text_to_copy" copy value "text_to_copy" example Copy text from saved value (non-headless only): copy to clipboard from "variableName" copy from "variableName" example In order to paste copied text click on the input field and use 2 commands: paste from clipboard or simply paste	

ess Ctrl+F to search	Action	Options	Example
NGUAGE DOCUMENTATION	Check	page	Check page content by string:
Getting Started guide			check that page contains stored value from
Basic Commands			"actionNotes"
Reusable Rules			<u>example</u>
(Subroutines)			or
Referencing locations			check that page contains "Hello"
Jsing variables			example Check page content (including the OCR recognized tex
oops			string:
/alidations			check that page contains "Best value plan" using
risual Testing			<u>example</u>
Vorking with Tables			Check page content using OCR recognized texts only:
Conditional execution			<pre>check that page contains "Best value plan" using only</pre>
API Testing			<u>example</u>
Uploading files			Check that page did not change after some action:
Phone calls			<pre>check that page didn't change compared to the pr step</pre>
MS messages (Phone ext)			<u>example</u>
ogin support			check that page didn't change
			<u>example</u>
Email testing			Note: This action compares page images pixel to pixel
Browser cookies,			Check that page doesn't have a fourth button:
essionStorage, userAgent			<pre>check that page doesn't contain 4th button</pre>
Comments			Validate page with Vision AI:
Audio Testing			check that page "contains a positive message" us
			Look for UI/UX issues using Vision AI:
Oatabase Query Chrome Extension Testing			<pre>check page for UI errors check page for UI errors reporting major errors</pre>
aptcha resolution			higher check page for UI errors treating errors as majo
scan QR Code			check page for UI errors reporting major errors
ANCED ^			higher treating errors as major or lower check page for UI errors treating errors as major lower reporting major errors or higher
TOMATE TESTING TABLES			Priority options are: minor, major, critical, blocker
NPATH OVERVIEW			
SEX SUPPORT			
PLE TEMPLATES ^			

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LANGUAGE DOCUMENTATION	.0	-	<u> </u>
Getting Started guide	Ocheck	element	<pre>check that "element" contains stored value from "actionNotes"</pre>
Basic Commands			example
Reusable Rules (Subroutines)			and check that "payout" contains "1000.00"
Referencing locations			example
Using variables			You can also validate whether an input/checkbox/button/etc
Loops			disabled, clickable, or enabled
Validations			<pre>check that button "Add to Cart" is disabled</pre>
Visual Testing			example Check stored value itself:
Working with Tables			<pre>check that stored value "createdName" itself contain</pre>
Conditional execution			"James"
			<u>example</u>
API Testing			Check that an element looks the same as it did on the sam during last successful run:
Uploading files			compare image of "my_div" to previous version with
Phone calls			allowance of "5%"
SMS messages (Phone Text)			Check that the entire screen looks the same as during last
			successful run:
Login support Email testing			<pre>compare screen to previous version compare screen to previous version with allowance of "5%" treating error as "minor"</pre>
Browser cookies,			<pre>compare screen to stored value "Saved Screenshot" treating error as "minor"</pre>
localStorage,			example
sessionStorage, userAgent			Check that SMS is received:
Comments			<pre>check that sms to "+12345678902" matches regex "Code\:\d\d\d" and save it as "sms"</pre>
Audio Testing			Check that file is downloaded and check its content:
Database Query			check that file "instruction.pdf" was downloaded
Chrome Extension Testing			
Captcha resolution			<u>example</u>
Scan QR Code			<pre>check that downloaded file contains "app"</pre>
ADVANCED			<u>example</u>
AUTOMATE TESTING TABLES			<pre>check that downloaded file "agreement.pdf" contains "agreement"</pre>
JSONPATH OVERVIEW			example
REGEX SUPPORT			<pre>check that downloaded file "agreement.pdf" does not contain "liability"</pre>
SIMPLE TEMPLATES ^			<u>example</u>
WHAT IS BOOLEAN LOGIC ^			<pre>check that file contains saved value "variableName"</pre>
			example
			You can also reuse the downloaded file or multiple files to them later in the test. For this you need the following action

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Action	Options	Example
		<pre>check that file was downloaded and save it as "DownloadedFiles"</pre>
		The variable "DownloadedFiles" will contain all files downlo
		after the last check for downloaded files. Then to upload th
		on some other page, just use the following action
		<pre>enter stored value "DownloadedFiles" into "upload- image"</pre>
		example
		You can also extract text from a downloaded file and save i
		variable.
		<pre>check that file was downloaded and save text as "file_text_1"</pre>
		Check that a container contains a nth element:
		<pre>check that "container" contains 2nd "element"</pre>
		Check that an element is changing. This is useful to check
		some element that contains animation or video is updating
		(desktop web browser testing and Android only):
		<pre>check that "sparkles" is changing</pre>
		<pre>check that video is playing check that video "movie" is playing</pre>
		You can also use a negative check:
		<pre>check that "sparkles" is not changing</pre>
		check that video is not playing
		<pre>check that video "movie" is not playing</pre>
		Validate element with Vision AI:
		<pre>check that "element" "contains a positive message" using ai</pre>
Ocheck	statement is	Utilize Vision AI tovalidate statement about the page
	true/following statement is correct	<pre>check that statement is true "page contains TestRigo logo"</pre>
∅ long press		long press on the 3rd "element"
Ohover		hover over 3rd "element"
		example
Sopen new tab		open new tab
		evamnle
		<u>example</u>

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Comments

Audio Testing

Database Query

Chrome Extension Testing

Action	Options	Example
Switch tab		switch to tab 3
		example
		or
		switch to tab "popup"
		Note: In order to easily keep track of tab numbers, testRigor's defasetting is to begin each test case in a new browser window. Therefal is always the tab the test case starts in, and tab 2, 3 and so on a new tabs in the order that they are opened throughout the test case. Note that quotation marks are not needed for tab numbers. Quotate marks are needed for tab names only. For pop-ups, instead of a taken number, you will need to use the popup window name or title.
Oclose tab		close tab
		<u>example</u>
⊕go back		go back
		example
⊕go forward		go forward
		example
O reload		reload
		example
reset to		reset to home
		<u>example</u>
⊕restart app		Restarts application without clearing data.
		restart app
		Note: This action is for mobile devices only.

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Action	Options	Example
Odrag element, file		drag "element1" to "element2"
		example
		Or file:
		drag file " <url>" onto "element"</url>
		<u>example</u>
		<pre>drag file from saved value "File to upload" onto "element"</pre>
		example
		Or draw on a canvas:
		<pre>drag "canvas1" with offset "0,0" to "canvas1" with offset "50,50"</pre>
		Drag mouse to multiple points without releasing the click:
		<pre>drag "canvas1" with offset "0,0" to "canvas1" with offset "50,0" via "canvas1" with offset "0,50" throu "canvas1" with offset "50,50" drag "canvas1" with offset "0,0" via "canvas1" with offset "0,50" through "canvas1" with offset "50,50" "canvas1" with offset "50,0"</pre>
		If you need to drag a folder with files, you need to zip it and
		upload in Test Data section and use it like so:
		<pre>drag folder from saved value "Zipped Folder" onto "element"</pre>
		example
		Note: This action does NOT work in headless mode. It also does N
		work with Internet Explorer

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LANGUAGE DOCUMENTATION	Scroll	down, up,	
Getting Started guide		left, right	scroll down
Basic Commands			example Or:
Reusable Rules			scroll down on "right_panel"
(Subroutines)			
Referencing locations			example Partial scroll:
Using variables			scroll down by 1/2 of the screen
Loops			<u>example</u>
Validations			You can also scroll directly to a specific part of the page:
Visual Testing			scroll down until page contains "Submit"
Working with Tables			example
Conditional execution			Or:
API Testing			<pre>scroll down until page contains link exactly "Contac Us"</pre>
Uploading files			<u>example</u>
Phone calls			Using the mouse:
SMS messages (Phone			For pages with several scroll areas, you can also scroll up down on a specific portion of text using the mouse wheel:
Text)			scroll down on "text" until page contains "Sign here
Login support			using the mouse
Email testing			<pre>scroll down on "text" using the mouse until page contains "Sign here!"</pre>
Browser cookies,			If the target text is very far from the starting point of the scr
localStorage, sessionStorage, userAgent			can focus scrolls on the area of the text instead of the text
Comments			by using mouse wheel action in a loop:
Audio Testing			<pre>scroll down on "text" using the mouse up to 15 times until page contains "Sign here!"</pre>
Database Query			Important Note: The scroll until page contains method w
Chrome Extension Testing			best in Visible first mode. Visible first prioritizes only
			visible in the viewport/screenshot. Batched mode opens testRig visibility to anything that is loaded on the page whether it is visible
Captcha resolution			end user or not. (To toggle this setting, you can find the dropdown
Scan QR Code			Settings->Speed optimizations->Performance->Getting visibility of elements approach)
ADVANCED	Swipe	down, up,	
AUTOMATE TESTING TABLES	Смарс	left, right	swipe right
JSONPATH OVERVIEW ^			<u>example</u>
REGEX SUPPORT			Or: swipe down on "right_panel"
SIMPLE TEMPLATES ^			Swipe down on right_paner
WHAT IS BOOLEAN LOGIC ^	€ wait	time	wait 3 sec
			example
			Note: 2 min max

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Email testing Browser cookies, localStorage, sessionStorage, userAgent Comments Audio Testing Database Query Chrome Extension Testing Captcha resolution Scan QR Code ADVANCED AUTOMATE TESTING TABLES JSONPATH OVERVIEW REGEX SUPPORT SIMPLE TEMPLATES WHAT IS BOOLEAN LOGIC	Sgrab value	Simple Template, RegEx, element	grab value from "element" and save it as "variableName" example Or, to grab a value from UserName:53vhhsw1fi@testrigor- mail.com grab value of "(?<=UserName\:)[^]+" and save it as "generatedUsername" Or: grab value of "(?<=UserName\:)[^]+" from "generated_section" and save it as "generatedUsernam example or, to grab a value using simple template: grab value by template "(###) ###-####" and save it "phoneNumber" Or: grab value by template "(###) ###-####" from element below "Phone" and save it as "phoneNumber" You can also grab multiple values from a table row or colun value will be stored as a JSON Array) grab values from "my-table" at first column and save it as "first-column-values" grab values from "my-table" at first row and save it as "first-row-values"

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Captcha resolution
Scan QR Code

ADVANCED

AUTOMATE TESTING TABLES^

WHAT IS BOOLEAN LOGIC ^

JSONPATH OVERVIEW

REGEX SUPPORT

SIMPLE TEMPLATES

Action	Options	Example
extract value by regex or template	element	<pre>extract value by regex "regex" from saved value "variableFrom" and save it as "variableTo" For example, to extract a value of username from variable containing UserName:53vhhsw1fi@testrigor-mail.com you use: extract value by regex "(?<=UserName\:)[^]+" from "var1" and save it as "generatedUsername" example extract value by template "#####" from stored value</pre>
		"variableFrom" and save it as "variableTo" For example, to extract the ID number from variable var1 containing userID:123456, you could use: extract value by template "#####" from stored value "var1" and save it as "idNumber"
Save value		save value "Peter" as "name" example
store Oclipboard		Clipboard current value can be saved into a variable for late usage: store clipboard value as "variable" example
Popen url	URL	<pre>open url "https://testrigor.ai?d=\" example Note: The domain must be whitelisted!</pre>
Øgrab url		You can grab the browser's current URL and save it into a variable: grab url and save it as "variableName" example

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REGEX SUPPORT

SIMPLE TEMPLATES

Action	Options	Example
Send email		Here is how to send a simple email:
		<pre>send email to "user@customer.com" with subject "Tes message" and body "Hi, this is a test, this is just test message."</pre>
		example
		To send an email with an attachment, you can upload the fi
		testRigor store in "Test Data" section, then use it by name a
		stored value. Alternatively you can use your own URL. If yo
		choose to attach a file from your own URL, the link should
	downloable.	
		<pre>send email from "sender@customer.com" to "recipient@customer.com" with subject "Test message and body "Hi, this is a test, this is just a test message.", and attachment from saved value "Sample File"</pre>
		example
		<pre>send email from "sender@customer.com" to "recipient@customer.com" with subject "Test message and body "Hi, this is a test, this is just a test message.", and attachment "http://online.com/file/name.pdf"</pre>
		<u>example</u>

Cetting Starred guide Basic Commands Reusable Rules Reserrencing locations Using variables Loops Variables Conditional execution API resting Working with Tables Conditional execution API resting Phone calls SMS messages (Phone Text) Log support Email testing Browser cookies, localStorage, sessionStorage, user/Agent Comments Audio Testing Comments Audio Testing Capcha resolution Scan QR Code ADVANCED AUTOMATE TESTING TABLES JSONPATH OVERVIEW A SIMPLE TEMPLATES A WHAT IS BOOLEAN LOCIC SMS Is resolved as a require expects on the remail of "local resolution or early in subject was received and recipient of the remail to "user/gustaterer.com" and "Coeffirm and expected or just say "one or more". Check that exall to "user/gustaterer.com" and "Coeffirm in subject was received and received example Comments Audio Testing Capcha resolution Scan QR Code ADVANCED AUTOMATE TESTING TABLES JSONPATH OVERVIEW A SIMPLE TEMPLATES WHAT IS BOOLEAN LOCIC W	Press Ctrl+F to search	Action	Options	Example
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Audio Testing Database Query Chrome Extension Testing Captcha resolution Scan QR Code AUTOMATE TESTING TABLES^ JSONPATH OVERVIEW AUTOMATE TESTING TABLES^ REGEX SUPPORT REGEX SUPPORT Suddie Starting with "Welcome Henry", etc. Audio Testing Audio Testing Audio Testing Also it is possible to filter messages by subject check that email to "user@customer.com" and "Confirm in subject was received example Notes: 1. This user action will render the email as if it is a web page. T address here is not the same as "To" address in the email. (that email to will validate that email is delivered to one (email recipients (To, Cc, Bcc). If there are more than one rec several actions may check for every recipient's address. 2. When you specify a subject, it is treated as a regular express match a possible email subject. E.g. "Welcome lw+" will match subject starting with "Welcome" and following some word, lib "Welcome John", "Welcome Henry", etc.	sessionStorage, userAgent			<u>example</u>
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SIMPLE TEMPLATES "Welcome John", "Welcome Henry", etc.	2.0			
WHAT IS BOOLEAN LOGIC ^	SIMPLE TEMPLATES ^			
	WHAT IS BOOLEAN LOGIC ^			

Press Ctrl+F to search	A	Action
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Action	Options	Example
reply to Semail		<pre>reply to email from "user@customer.com" with "confirmed"</pre>
		Or
		<pre>reply to email to saved value "newEmail" with "confirmed"</pre>
		example
		<pre>reply to email to saved value "newEmail" from "user@customer.com" and subject "Confirm" with "confirmed"</pre>
		<pre>reply to email to saved value "newEmail" and subject <regular expression="">" with "confirmed"</regular></pre>
		Note: this command will render the received email (not the respon it is a web page
O call	phone number	call "+15344297154" and check it was picked up
		example
		Or, simply:
		call "+15344297154"
Ø _{sms}	phone number	sms to +15344297154 with body "hello"
		Or
		<pre>message +15344297154 with body "hi from testRigor" a verify it was delivered</pre>
set geo location (GPS Coordinates)		set geo location "40.7128,74.0060"
start browser /	name	Starts a new browser with its own new session.
start device		start browser "User 2"
		example Start and switch:
		start browser "User 2" and switch
		example
		For device:
		start device "User 2"

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Action	Options	Example
switch to browser / switch to device / switch to remote desktop	name	example For device: switch to device "User 2" example Get back to the first browser: switch to browser "default" example For remote desktop: switch to remote desktop "default" Note: This command is only available for Windows Remote Deskto suites. It will return to the first remote desktop if the user has switc browser at some point during the test case execution.
switch context to native / switch context to browser		Switch the context of the following actions to the entire mole device (as for application testing) or start the mobile brows use only its content (as for web testing).

Basic Commands Reusable Rules (Subroutines) Referencing locations Using variables Loops Validations Visual Testing Uploading files Phone calls SMS messages (Phone Test) Log neuronals Log sessionStorage, userAgent Commens Audio Testing Database Query Chrome Extension Testing Database Query Chrome Extension Testing Captcha resolution San QR Code ADVANCED AUTOMATE TESTING TABLES SIMPLE TEMPLATES AUTOMATE TEMPLATES AWARDS WHAT IS BOOLEAN LOGIC AWARDS AUTOMATE TESTING TABLES SIMPLE TEMPLATES AWARDS AWAR	Press Ctrl+F to search	Action	Options	Example
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				document.querySelector("#input1").value = "John Doe
<u>example</u>				<u>example</u>

Press Ctrl+F to search	Action	Options	Example
LANGUAGE DOCUMENTATION	accent		
Getting Started guide	accept alert/prompt	prompt value	Browser alert/prompt can be accepted with a value:
Basic Commands			accept prompt with value "John Doe"
			example
Reusable Rules (Subroutines)	change	portrait,	Device orientation can be changed to portrait/landscape on
Referencing locations	device orientation	landscape	android/iOS device:
Using variables			change device orientation to landscape change device orientation to portrait
			and the second of the second o
Loops	Ø zoom	in, out, open,	In native mobile testing (android/iOS), zoom can be applied
Validations		close	the pinch gesture:
Visual Testing			zoom in zoom out
Working with Tables			
Conditional execution			The zoom value is set to 50% by default, and it is applied for center of the screen. It is possible to specify the screen or
API Testing			element from which the motion will depart, as well as an of
Uploading files			<pre>zoom in "20" % from the middle of the screen zoom out "10" % from "element" with offset "10,10"</pre>
Phone calls			
SMS messages (Phone			Another syntax option is to use pinch open/close instead of in/out; both methods function the same.
Text)			pinch open "20" % from the middle of the screen
Login support			<pre>pinch close "10" % from "element" with offset "10,10</pre>
Email testing	open	IIDI paakaga	In mobile testing (web and notive), desplicte our be appear
Browser cookies,	deeplink	URL, package or bundle	In mobile testing (web and native), deeplinks can be opene passing the URL:
localStorage,			open deeplink "URL"
sessionStorage, userAgent			For package/bundle information, you can pass that explicity
Comments			command.
Audio Testing			
Database Query			Example: opening a deeplink to a specific place using the " app on Android:
Chrome Extension Testing			open deeplink "geo:0,0?q=eiffel+tower+paris" with
Captcha resolution			package "com.google.android.apps.maps"
Scan QR Code			For Android, if no package information is provided, then the default application package will be used.
ADVANCED			default application package will be asea.
AUTOMATE TESTING TABLES			Example: opening up accessibility options inside the setting on iOS 17:
JSONPATH OVERVIEW ^			open deeplink "app-prefs:ACCESSIBILITY"
REGEX SUPPORT			For iOS, if no bundle information is provided, then the defa application for the given url scheme is going to be used.
SIMPLE TEMPLATES ^			application for the given all scheme is going to be asea.
WHAT IS BOOLEAN LOGIC ^	install application	alias of mobile application	Extra mobile application can be uploaded under Settings- >Multiple applications and installed on testRigor android/iO device.

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Action	Options	Example
hold key, Prelease key	Control, Shift, Alt, Command, F1, F2,F12,	Hold key could be use in combination with a click. hold key command and click "button" hold key ctrl and long click "item 2"
	Enter, Space, Delete, Backspace	hold key command and click exactly "Item 9" Example of use of Hold and Release
		hold key command click "item 1" check that page contains "item 5" click "item 5" click "item 9" release key command

Reusable Rules (Subroutines)

If you have a sequence that will be used often, you can save them as a Reusable Rule and refer to it with the name of your choosing.

Example: The first 6 steps of the example below will take you to your checkout page. If you frequently perform this process, create one rule to simulate all of those steps.

```
login
click "Men Clothing"
scroll down
click "Men's cargo shorts"
click "brown"
click "Size 34"
click "Add to cart"
check that page contains "Your order is nearly complete!"
```

example

Then, go to the Reusable Rules section in testRigor, assign the name "go to checkout page" to your rule, and add the first 6 steps above. From then on, you can simply use the syntax below to trigger all 6 steps:

```
go to checkout page
check page contains "Add to cart"
```

You can also create rules with dynamic parameters.

Rule name:

```
search "product" click on the link and then press "button"
```

Steps: (We're going to create variables with the same name you define between quotes.)

```
enter stored value "product" into "search"
click link stored value "product"
click stored value "button"
```

example

Then you can call the rule like:

```
search "Computer" click on the link and then press "Add to Cart"
```

The variables defined are scoped and can only be accessed inside the rule.

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* Referencing Locations and Elements

All references must be in double quotes, which can be escaped by backslash. There are several ways to refer to elements (for checks, clicks, entering data, etc.).:

Attributes

The following list contains the supported **attributes** that testRigor can interact with. **Attributes are searched for without the need to refer to them in the script.** The command <code>check that page contains "peter" will search through elements with the following attributes:</code>

Attributes for Desktop web browser and mobile web browser testing

Desktop web browser and mobile web browser testing support the following attributes:

- 1. Nested text example
- 2. Placeholder example
- 3. Value example
- 4. data-tid/data-testid/data-test-id/Id/resource-id/data-id example
- 5. Name example
- 6. aria-label example
- 7. CSS Class example
- 8. Label from ML classification example
- 9. Hint/Title/Tooltip example
- 10. Alt/Src example
- 11. For inputs/edits/dropdowns/selects/etc. will also search corresponding label example

*Note: In addition to the above mentioned attributes, custom attributes can be added for desktop web browser testing in Settings => Advanced => Custom attributes to consider for finding elements new line separated.

Attributes for native mobile application testing

Native mobile applications support the following attributes:

Android

- 1. content-desc
- 2. class (usually named something like android.widget.TextView)
- 3. resource-id
- 4. text/label

iOS

- 1. accessibility-id
- XCUIElementType
- 3. name
- 4. text/label

*Note: Hybrid applications tested on testRigor infrastructure use the attributes both from web browser applications and native mobile applications.

Attributes for remote desktop application testing (only available if Windows Application Driver is properly set up)

- 1. AutomationId
- 2. Name

Generic Indexes

Generic indexes are allowed for when multiple instances of the same element are on the page. For example:

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check that second "peter" color is "ffaabb"
check that 2nd "peter" color is "ffaabb"

example

Types

Types allow us to differentiate elements that have the same name on the screen. For example, if there is both a button and an input placeholder named "Search" on the page and you want to click the button, the way to specify it would be click button "Search". Supported types are:

- 1. text example
- 2. label example
- 3. button example
- 4. link example
- 5. input (or "edit" or "field") example
- 6. dropdown (or "select") example
- 7. checkbox (or "switch") example
- 8. radiobutton example
- 9. file input (or "input file" or "edit file" or "input type file"): specifically an input of type file example

Typed indexes

Typed indexes are a combination of general indexes and types. For example, check that second input "peter" color is "ffaabb" will find the second input/edit named "peter".

example

Stored value for controls

Stored value for controls is the use of a variable to find and element or control. For example, check that stored value "peter" color is "ffaabb" will resolve the stored value for "peter" and use that resolved value to find the control.

example

Image class

Image class uses image recognition technology to identify common icons. For example, click on "cart" . testRigor classifies images on the screen and if there is a button which looks like a shopping cart it will click on it. Complete list of all button image categories is here. example

Stored value for data

For example, check that "peter" contains stored value "actionNote" will find the second input/edit related to "peter".

<u>example</u>

All the ways to refer an element described above apply to all types of actions like check, enter, click, etc. The options above can be combined together.

Multiple references support

Multiple references allows us to use or in instances where the targeted element has two possible names. In certain cases, certain elements might be expected to have different names but mean the same thing. For example:

```
click "checkout" or "submit"
```



example

It can also be combined with "if exists" to avoid failing if the element doesn't exist:

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click "checkout" or "submit" if exists

example

Selecting elements in reference to other elements

You can select elements based on it's position in relation to some other element (otherwise known as the "anchor"). For example, you can refer to elements in certain sections like:

```
click on button "Delete" below "Actions"
```

Supported relative locations are:

- 1. to the left of example
- 2. to the right of example
- 3. above example
- 4. below example
- 5. on the right top of example
- 6. on the left top of example
- 7. on the right bottom of example
- 8. on the left bottom of example
- 9. near example

You can also refer to the elements by 2 references:

```
click on button "Delete" below "Section Name" to the right of "label"
```


example

By default, testRigor will consider elements that are located at least 30% between the the target area (the yellow lines that extend from the anchor on screenshots). When the element is located less than 30% between the target area, certain keywords can be used to specify how the relative position should be used:

- 1. roughly used to search for an element anywhere on the screen in the direction of the relative location specified starting from the anchor (e.g., anywhere below the anchor for "below", anywhere to the right of the anchor for "to the right of") example
- 2. with at least "10" percent overlap used to specify when less than 30% of the element falls between the target area example
- 3. completely As the first relative location in a command defaults to "roughly" when there multiple anchors, this keyword allows the first relative location to retain it's default meaning (i.e., it is only necessary when more than one anchor is specified and you need to keep the default meaning of the relative location) example

For example:

```
enter "Peter" into roughly below "Section"
enter "Peter" into element with at least "1" percent overlap on the right of
"Description"
```

However, if there are 2 anchors specified, the first anchor defaults to "roughly" and the second one uses the default behavior. For example,

```
enter "Peter" into "Section" below "Type" and on the right of "Description"
```



is equivalent to:

```
enter "Peter" into "Section" roughly below "Type" and on the right of "Description"
```

however, if you want "below" to keep its default meaning, you would need to say:

```
enter "Peter" into "Section" completely below "Type" and on the right of
"Description"
```

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Selecting elements in the context of other elements

You can select elements within the context of other elements. For example, you can pinpoint row at the table and ask to click a button in the context of that row:

```
click on "Delete" within the context of table "actions" at row containing "id1" and
column "Actions"
```

example

You can use references to other elements (previous section) in the context itself

```
click on "Delete" within the context of "sectionTwo" below "Actions" and to the
right of "rowName"
```

Selecting elements using reference to other elements and in the context of other elements

You can narrow where to look for an element using a combination of references to and in the context of other elements.

- 1. Context is processed first, narrowing what to consider to what is inside that element
- 2. References to other elements is processed next, only considering what was delimited by the context

```
click on "Button" below "Title" in the context of "sectionOne"
```



example

```
click on "Button" below "Title" and to the right of "leftHeader" in the context of
   "sectionTwo"
```

example

You can even specify up to 4 references to other elements using this combination

```
click on "Button" below "Subtitle" and to the right of "leftHeader" in the context
of "sectionOne" below "Title" and above "Second Title"
```

<u>example</u>

Specifying the type of an element

You can force the system to only deal with a certain type of elements. The following command will not click on any text that is not a button or link:

```
click on strictly button "Delete"
```



example

Case sensitivity and exact matches

You can choose to deal with only "exactly" matches (i.e., case sensitive full strings match, or just say "case sensitive" to make matching case sensitive):

```
click on exactly "Delete"
```



example

It can be combined with the strict type selection like so:

```
click on strictly button exactly "Delete"
```



example

All supported modifiers to a string being searched:

- 1. case sensitive
- 2. exactly (case sensitive full string must be exactly the same)
- 3. full string (not necessarily case sensitive)
- 4. contains template contains substring which matches a simple template

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- 5. contains regex contains substring which matches a regular expression
- 6. matches template the full string must match a simple template
- 7. matches regex the full string must match a regular expression
- 8. strictly less lexicographically strictly earlier (empty strings are always not less)
- 9. less or equal lexicographically earlier or equal (empty strings are always not less or equal)
- 10. strictly more lexicographically strictly later (empty strings are always not more)
- 11. more or equal lexicographically later or equal (empty strings are always not more or equal)

Fine-tuning access

In some cases, the target might be too wide, in this case you can force it to go deeper:

```
click deepest element "Delete"
```


example

It will issue click on the deepest element in the element tree that has the text.

You can also to force it go shallow elements. It is useful when the "Prioritize the deepest element" setting is enabled and we don't want to click on the deepest element:

```
click enclosing element "Delete"
```



example

It will issue click on the enclosing element in the element tree that has the text.

Specifying position on screen

It is possible but highly discouraged (for stability reasons) to use offsets to click on specific part of an element:

```
click on "Delete" with offset "20,10"
```



offset is calculated from top left corner of the element, horizontal coordinate first. It is also possible to specify some generic positions like:

```
click in the middle of the screen
```



The supported positions are:

- 1. in the middle of the screen example
- 2. in the top quarter of the screen example
- 3. in the second top quarter of the screen example
- 4. in the bottom quarter of the screen example
- 5. in the second bottom quarter of the screen example
- 6. in the top third of the screen example
- 7. in the bottom third of the screen example
- 8. in the left quarter of the screen example
- 9. in the second left quarter of the screen example
- 10. in the right quarter of the screen example
- 11. in the second right quarter of the screen example
- 12. in the left third of the screen example
- 13. in the right third of the screen example
- 14. in the left side of the screen example
- 15. in the right side of the screen example
- 16. in the top of the screen example
- 17. in the bottom of the screen example
- 18. on the left edge of the screen example
- 19. on the right edge of the screen example
- 20. on the top edge of the screen example
- 21. on the bottom edge of the screen example
- 22. in the left top corner of the screen example

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- 23. in the right top corner of the screen example
- 24. in the left bottom corner of the screen example
- 25. in the right bottom corner of the screen example

Saved values (variables) support

To use a variable instead of an explicit string, add "stored value" or "saved value" before the variable:

Ľ

```
validate that stored value "actionNotes" color is "ffaabb"
```

example

```
check that "peter" contains stored value "actionNote"
```

<u>example</u>

```
click on stored value "actionNotes"
```

example

```
check that page contains stored value from "actionNotes"
```

<u>example</u>

testRigor supports generating random values based on $\frac{\text{RegEx}}{\text{RegEx}}$, saving them and using them later in the test. For example:

```
generate from regex "[a-z]{10,18}", then enter into "Notes" and save as
"actionNotes"
```

example

There are 2 special stored values: "username" and "password" which come from Application-specific credentials settings for your test suite. With it you can do:

```
enter stored value "username" into "username_field"
```

example

```
enter stored value "password" into "password_field"
```

example

These stored credentials are also used by login command. Also, you can use stored variables as parameters in most commands by adding a \$ and curly brackets (\${variableName}}):

```
enter from the string with parameters "${homePrefix}/my/path" into "urlPath"
```

example

*Note that using \$ and curly brackets with keywords string with parameters allows users to concatenate or join variables with variables or variables with static values in the portion between quotation marks.

Calculations and equations

And calculate expressions like this:

```
check that expression "${a} + ${b}" itself is equal as a number to "42"
```

<u>example</u>

or like this:

```
save expression "${a} + ${b}" as "answer"
```

example

testRigor supports ECMAScript 5.1 compatible expressions.

For example, you can calculate to check that a year from 30 days ago is present on the screen:

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check that page contains expression "var aDate=new
Date(); aDate.setDate(aDate.getDate()-30); ' '+aDate.getFullYear()"

Pre-defined Variables

testRigor supports the following pre-defined saved values:

- 1. username enter stored value "username" into "Email" example
- 2. password enter stored value "password" into "Password" example
- 3. homeDomain (from URL in Test Suite Details: www.example.com) open URL from string with parameters "https://\${homeDomain}/cart/checkout/confirm" example
- 4. homeFile (from URL in Test Suite Details: /cart/checkout/confirm) open URL from string with parameters "https://www.example.com\${homeFile}" example
- 5. homePrefix (from URL in Test Suite Details: https://www.example.com) open URL from string with parameters "\${homePrefix}/cart/checkout/confirm" example
- 6. todayYear (2023) enter stored value "todayYear" into "YYYYY" example
- 7. todayYearShort (23) enter stored value "todayYearShort" into "Year" example
- 8. todayMonthNumber (9) enter stored value "todayMonthNumber" into "Month" example
- 9. todayMonthNumberTwoDigits (09) enter stored value "todayMonthNumberTwoDigits"
 into "Month" example
- 10. todayMonth (September) click stored value "todayMonth" example
- 11. todayMonthShort (Sep) click stored value "todayMonthShort" example
- 12. todayDayOfMonth (2) enter stored value "todayDayOfMonth" into "Month" example
- 13. todayDayOfMonthTwoDigits (02) enter stored value "todayDayOfMonthTwoDigits" into "Month" example
- 14. todayDayOfWeek (Monday) enter stored value "todayDayOfWeek" into "Day" example
- 15. todayDayOfWeekShort (Mon) enter stored value "todayDayOfWeekShort" into "Day" example
- 16. nowHour (2 or 14) select stored value "nowHour" from "Start time" example
- 17. nowHourTwoDigits (02 or 14) select stored value "nowHourTwoDigits" from "Start time" example
- 18. nowHourAmPm (2) select stored value "nowHourAmPm" from "Itinerary" example
- 19. nowHourTwoDigitsAmPm (02) select stored value "nowHourTwoDigitsAmPm" from "Itinerary" example
- 20. nowAmPm (PM) select stored value "nowAmPm" from "Time of day" example
- 21. nowMinute (5) enter stored value "nowMinute" into "Start time" example
- 22. nowMinuteTwoDigits (05) enter stored value "nowMinuteTwoDigits" into "Start time" example
- 23. nowSecond (7) enter stored value "nowSecond" into "Sec" example
- 24. nowSecondTwoDigits (07) enter stored value "nowSecondTwoDigits" into "Sec" example
- 25. nowNanosecond (355881000) save string with parameters
 - "email\${nowNanosecond}@testrigor-mail.com" as "newEmail" example
- 26. nowDateIso (2023-09-02) save stored value "nowDateIso" as "currentDate" example 27. nowTimeIso (02:05:07) save stored value "nowTimeIso" into "currentTime" example
- 27. How time iso (02.05.07) save stored value "now time iso" into "current time" example
- 28. nowDateTimeIso (2023-09-02T02:05:07.165068-07:00[America/Los_Angeles]) save stored value "nowDateTimeIso" as "currentDateTime" example
- 29. nowMillisecondsFrom1970 (1637061365335) save stored value
 - "nowMillisecondsFrom1970" as "timeStamp" example
- 30. nowDateTimeRFC1123UTC (Mon, 16 Sep 2023 16:32:41 GMT) save stored value "nowDateTimeRFC1123UTC" as "currentDateTime" example
- 31. nowUnixTime (1637061404) save stored value "nowUnixTime" as "currentUnixTime" example
- 32. testSuiteParentFolder enter stored value "testSuiteParentFolder" into "Field Name" example

Press Ctrl+F to search

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33. testSuitePath - enter stored value "testSuitePath" into "Field Name" example

34. testSuiteName - enter stored value "testSuiteName" into "Field Name" example

35. testCaseName - enter stored value "testCaseName" into "Field Name" example

36. testCaseExecutionLink - enter stored value "testCaseExecutionLink" into "Field Name" example

37. currentUrl - save stored value "currentUrl" as "url" example

38. browser - save stored value "browser" as "variable name"

39. device - save stored value "device" as "variable name"

40. provider - save stored value "provider" as "variable name"

41. os - save stored value "os" as "variable name"

42. osVersion - save stored value "osVersion" as "variable name"

43. abi - save stored value "abi" as "variable name"

testRigor also supports grabbing values from elements on the screen and saving them into variables for later usage. For instance:

```
grab value from "some-element" and save it as "my-email"
grab value from input "some-edit" and save it as "my-email"
```

example

You can also grab a set of values from a table row or column (the value will be stored as a JSON Array)

```
grab values from table "some-table" at column "some-column" and save it as "some-
column-values"
grab values from table "some-table" at first row and save it as "first-row-values"
```

You can set variables directly without entering it anywhere. For instance:

```
generate from regex "[a-z]{10,18}" and save as "actionNotes"
```

example

```
save value "Peter" as "name"
```

example

Executing actions in a loop

testRigor has limited support for executing commands until a certain condition is true. For example:

```
click "Next" until page contains stored value "previously generated id"
```

example

It can be used for going through pages in long lists or scrolling down until a certain text is visible or certain button is visible. By default the action will be executed up to 10 times, but you can extend maximum number of times by adding "up to":

```
click "Next" up to 12 times until page contains strictly button "Place order"
```

<u>example</u>

You can do the same thing with rules as well:

```
Go To The Next Page until page contains stored value "previously generated id" Do Something up to 12 times until page contains strictly button "Place order"
```

Validations

You can make multiple types of validations as described below. Validations are by default are "soft" validations, meaning that the execution of the test case will continue even if the validation failed. You can have "hard" validations by adding and stop test if fails to the end of the validation. Validations are supported for multiple things like:

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- 1. Finding something on the screen/page
- 2. Validating properties or content of an element/finding element with given properties and content
- 3. Visual validations (colors, matching images to of elements to later versions)
- 4. Downloaded files validations
- 5. Audio validations (Ubuntu only)
- 6. Video validations (desktop web browser testing only)
- 7. Email validations
- 8. SMS validations
- 9. Phone call validations
- 10. Mathematical validations/calculations of formulas (even for data that just looks like financial data like -\$30,000.23)
- 11. Built-in API validations
- 12. Chrome Extensions Testing
- 13. Al-based validations where you can use Al to assess if certain statements are true
- 14. Exploratory validations where you can ask AI to look at the screen and find obvious issues
- 15. And many more

For **full-page validations**, **URL** and **page title validations**, we support the following positive and negative assertions:

- 1. contains/doesn't contain (text). For example, check that page contains "Error"
- 2. contains template/doesn't contain template (text). For example, check that page contains template "###-###"
- 3. contains regex/doesn't contain regex (text). For example, check that page contains regex
 "(+\d)?\d{3}-\d{3}-\d{4}"
- 4. return code is. For example, check that page return code is "404"
- 5. did not change compared to the previous step. For example, check that page did not change compared to the previous step
- 6. url starts with/url doesn't start with. For example, check that url starts with "https"
- 7. url contains/url doesn't contain. For example, check that url contains "testrigor.com"
- 8. url is/url is not. For example, check that url is "https://testrigor.com/docs/language/"
- 9. url ends with/url doesn't ends with. For example, check that url is "https://testrigor.com/docs/language/"
- 10. url matches regex/url doesn't match regex. For example, check that url matches regex "https://testrigor\.com/docs/\w+/"
- 11. title is. For example, check that page title is "testRigor Documentation"
- 12. title contains. For example, check that page title contains "testRigor"

For **element-specific validations**, we support the following positive and negative assertions:

- 1. contains/doesn't contain (text) example/example
- 2. is blank/is not blank example/example
- 3. matches regex/doesn't match regex example/example
- 4. matches simple template/doesn't match simple template check that "section1" matches simple template "\$######"
- 5. contains simple template/doesn't contain simple template check that "section1" contains simple template "\$######"
- 6. contains regex/doesn't contain regex check that "section1" contains regex "[A-Z][a-z]+"
- 7. lexicographically before check that "section1" lexicographically before "zzzz" (empty string is not lexicographically before anything)
- 8. lexicographically before or the same as check that "section1" lexicographically before or the same as "zzzz" (empty string is not lexicographically before or the same as anything)
- 9. lexicographically after check that "section1" lexicographically after "AAAA" (empty string is not lexicographically after anything)

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10. lexicographically after or the same as - check that "section1" lexicographically after or the same as "AAAA" (empty string is not lexicographically after or the same as anything)

- 11. has value/doesn't have value (for inputs/text areas) example/example
- 12. is checked/is not checked example/example
- 13. is disabled/is enabled example/example
- 14. is visible/is invisible example/example
- 15. color is example
- 16. is clickable/is not clickable example/example
- 17. cursor is example
- 18. has CSS class example
- 19. background color is example
- 20. has property example
- 21. has options selected (for dropdowns when tagged as <code><select></code>) example

```
check that "element" color is "ffaabb"
check that input "input" has value "value"
check that checkbox "Keep me signed in" is checked and stop test if fails
check that checkbox "Keep me signed in" is not checked
```

Validate that an input has no value:

```
check that input "input" has value ""
```

Validate that element has some property:

```
check that property "background-color" of "my-div" is equal to "black"
check that property "width" of "my-div" is equal as a number to "310px"
check that property "height" of "my-div" is greater or equal than "170"
```

For stored values, including: API return value validations, values grabbed from the screen, values extracted from text. We support (positive and negative):

- 1. matches regex/doesn't match regex example/example
- 2. contains/doesn't contain example/example
- 3. is equal to/is not equal to example/example
- 4. is null/is not null example/example
- 5. is blank/is not blank example/example

You should use the word itself to perform validation on a stored value:

```
call api "https://testrigor.com" and save it as "variableName"
check that stored value "variableName" itself contains "James"
```

example

The key to the testing API results is to save it to stored value and then perform validation on stored value itself (with keyword itself) as shown above.

Both element and stored value validations support:

- 1. is equal as a number to/is not equal as a number to example/example
- 2. is greater than example
- 3. is greater or equal than example
- 4. is less than example
- 5. is less or equal than example

You can also enjoy validations that apply to the whole screen/page:

- 1. page contains/page doesn't contain example/example
- 2. page has regex/page doesn't have regex example/example
- 3. page's return code is
- 4. title is example
- 5. title contains example
- 6. url is/url is not example/example
- 7. url contains/url doesn't contain example/example
- 8. url starts with/url doesn't start with example/example
- 9. url ends with/url doesn't end with example/example
- 10. url matches regex/url doesn't match regex example/example

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For example, you can combine stored values for validation:

```
check that url matches regex from the string with parameters
"${homePrefix}/product/${type}/[0-9A-Za-z\-]+"
```

AI-based testing

You can use 2 types of pure-AI-based testing. You have to be cautious since AI can have hallucinations and provide incorrect answer sometimes.

• Asking Al specific questions like check that page "contains a positive message in the chat response" using ai - example

• Getting UI issues from the screen check page for UI errors - example

Specific AI validations on the screen

You can set validations to confirm that a statement is true about the screen you are currently on like this:

```
check that page "contains a positive message in the chat response" using ai

See example. Or, alternatively like so:

check that statement is true "page contains TestRigor logo"

Or, you can ask AI to validate statements about specific elements on the screen like so: check that "element" "contains a positive message" using ai See example
```

AI discovers issues itself

You can also ask AI to find issues on a screen like this, you can also specify the limit for the severity for the issues:

```
check page for UI errors
check page for UI errors reporting major errors or higher
check page for UI errors treating errors as major or lower
check page for UI errors reporting major errors or higher treating errors as major
or lower
check page for UI errors treating errors as major or lower reporting major errors or
higher
```

See example

Visual Testing

You can verify visual changes on the screen using the following sample steps:

```
compare screen
compare screenshot to previous version
compare screen to previous version with allowance of "1%" treating error as "minor"
compare screen to previous version treating error as "minor"
```

*Remember that this verifies that the entire screen looks the same as it did at this step during last successful run.

It is possible to save a sample screenshot in test data and use it as the point of comparison instead of the previously saved screen image:

```
compare screen to stored value "Saved Screenshot"
```

Regarding the severity parameter, the allowed values are "minor", "major", "critical", or "blocker". The default value is "critical", which marks the test case as failed. Similarly, there is an option to use the "allowance" clause, a minimum acceptable difference in percentages. Any difference below this value will be ignored. You may need to experiment with this parameter. In any case, you can find actual discrepancy in "Extra info" for a particular step. On mobile devices we ignore the status bar on top. This is so because there is a time stamp that may be different for each screenshot.

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Clicking on specific images with visual testing

testRigor also offers visual support for clicking on images by indexing for instances where images or icons do not have a simple way to be referred to. To accomplish this, crop the desired image from a screenshot or file in its full resolution and save it in the Test Data Section. To then refer to it in your case, use the syntax below:

discrepancy

click on the 6th element by image from stored value "logo" with less than "10" %



If there is only one image that you want testRigor to recognize, use the following:

click by image from stored value "logo" with less than "10" % discrepancy



You may need to toggle discrepancy percentages in order to allow testRigor to recognize the image.

Working with Tables

You can refer to table cells by the intersection of the row and column by providing value of the first cell in the row and value of the header/top cell in the column. For example, command:

click on table "actions" at row "103" and column "Action"



example

For the table

#	Id	Name	Actions	Additional Data
Filter by				
101	york1	Yorktown	Arrive Cancel	Looks like a trap
102	spk2	Spock	Listen to Ignore	
103	nyo3	Nyota	Open channel Promote	

Actions

will result in a click on "Open channel".

You can also specify row by saying that row should contain a certain value. This way we will check all values of every row to find the one which matches. For example, for the same table above, and command:

click on table "actions" at row containing "spk2" and column "Actions"



example

will result in a click on the first action "Listen to". To click on second action "Ignore" you can leverage our context feature:

click on "Ignore" within the context of table "actions" at row containing "spk2" and it
column "Actions"

example

You can also work with multiline headers by referring to them wither "header" word:

enter "york1" into first table at the second header row and column "Id"



<u>example</u>

testRigor supports tables for all kinds of operations including but not limited to: validations (checks), clicks, hover, entering data (enter ... into), drag and drop, etc. Examples:

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check that table "actions" at row "102" and column "Name" contains "Spock"

example

```
check that table "actions" at row "101" and column "Additional Data" has value
"Looks like a trap"
```

example

```
enter "This is a trap!" into table "actions" at row "101" and column "Additional
Data"
```

<u>example</u>

```
click "Open channel" within the context of second table at row "103" and column
"Action"
```

example

```
check that the second table at row containing "Nyota" and column "Action" contains
link "Open channel"
click the first button within the context of second table at row containing "Nyota"
and column "Action"
```

Row or column value aggregation

You can check certain aggregations and comparations with the data contained in an entire row or column

Order of values

To check the order of the values contained in a row or column

```
check that table "actions" at column "Name" has values sorted in ascending order
check that table "actions" at column "Name" has values sorted in descending order
```

Number of values (count)

To check the value count in a row or column

```
check that table "actions" at column "Name" the value count is greater than "2"
check that table "actions" at column "Name" the value count is less than "2"
check that table "actions" at column "Name" the value count is equals to "2"
```

Sum of values

To check the sum of values in a row or column

```
check that table "actions" at column "#" the sum of values is greater than "100"
check that table "actions" at column "#" the sum of values is less than "500"
check that table "actions" at column "#" the sum of values is equals to "306"
```

Average of values

To check the average of values in a row or column

```
check that table "actions" at column "#" the average of values is greater than "100"
check that table "actions" at column "#" the average of values is less than "300"
check that table "actions" at column "#" the average of values is equals to "155"
```

Conditional execution

testRigor supports conditional execution of commands and rules.

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Inline Conditional Command

You can execute a command only if a condition is met, like this:

```
click "element" if page contains "bla"
```

example

```
enter "macbook" into "search" if "Search in" has value "bla"
```


example

In certain cases, certain elements might appear randomly on the screen. For such cases, there is an if exists clause. For example:

```
click "element" if exists
```



example

```
enter "bla" into "element" if exists
```



example

The above commands will not fail if element is not found and will be skipped silently.

Inline Conditional Rule

You can execute a rule only if a condition is met, like this:

```
My Rule if page contains "bla"

Purchase Product if "Search in" has value "Products"
```

Conditional blocks

In addition to inline conditionals, which provide a quick way to execute a command or a rule depending on the result of a validation, we also provide conditional blocks to allow you to test multiple conditions with multiple commands and/or rules.

You can execute multiple commands on one condition. For example:

```
if page contains "bla" then
  click "element"
  wait 10 sec
  enter "some text" into "some other element"
end
```

example

Also if you add an else clause you could execute other commands when the condition is not met. For example:

```
if page contains "bla" then
  click "element"
  wait 10 sec
else
  enter "some text" into "search"
  wait 10 sec
```

example

Test as many conditions as you want using the <code>elseif</code> clause. For example:

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```
if page contains "bla" then
   click "element"
   wait 10 sec
else if page contains "search" then
   enter "some text" into "search"
   wait 10 sec
else if page contains "foo" then
   enter "foo bar" into "element"
   wait 10 sec
   click "some button"
else
   wait 10 sec
   logout
end
```

example

In addition to commands you can execute rules inside the conditional blocks. For example:

```
if page contains "bla" then
check for some words
open the main menu
clear all
```

Conditional blocks are very flexible cause you can mix commands and rules on every condition.

For example:

```
if page contains "Welcome" then
  accept all cookies
  wait 20 sec
  open the main menu
else if page contains "Search" then
  click "Search"
  enter "Big TV's"
  purchase the first item on the list
else
  login
end
```

NOTE: Conditional blocks cannot be nested, we suggest you to use rules to nest complex conditions.

Fail the test on purpose

There is a way to fail the test at will as in the following example:

fail

example

fail with "error"

<u>example</u>

API Testing

testRigor supports calling to API's, getting value and saving result as a stored value:

```
call api <TYPE> "<API_URL>" with headers "a:a" and "b:b" and body "body" and get
"JsonPath" and save it as "variableName"
```

For example:

```
call api post "http://dummy.restapiexample.com/api/v1/create" with headers "Content-
Type:application/json" and "Accept:application/json" and body "
{\"name\":\"James\",\"salary\":\"123\",\"age\":\"32\"}" and get "$.data.name" and
save it as "createdName" and then check that http code is 200
```

example

In the example above, testRigor would validate that return http code is 200. Parameters

"JsonPath" and "variableName" are both optional. However, if "JsonPath" is present,

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"variableName" will be mandatory. Here is one more example,

```
call api "api" and save it as "variableName"
```

<u>JsonPath</u> is the way to refer to parts of JSON and described with examples <u>here</u>. If "JsonPath" is not defined in the action, the complete result of the request will be stored in "variableName". testRigor supports all HTTP actions for call <TYPE>:

```
    get - example
    post - example
    put - example
    patch - example
    head - example
    delete - example
    options - example
```

8. trace - example

testRigor supports multiple headers separated by "and" like so: with headers "a:a" and "b:b" You can pass JSON into the body of POST message, with double quotes characters escaped like so: "\"". You could use tools like this to escape it for you. For example:

```
and body "{\"name\":\"James\",\"salary\":\"123\",\"age\":\"32\"}"
```

You can use parameters and multi-line strings for constructing a call:

```
call api post from the string with parameters "${homePrefix}/api/v1/create" with
headers "Content-Type:application/json" and "Accept:application/json" and body text
starting from next line and ending with [END]
{
    "param": "value",
    "param2": "value2"
}
[END] and get "$.data.name" and save it as "createdName"
```

And you can pass parameters:

```
call api post from the string with parameters "${homePrefix}/api/v1/create" with
headers "Content-Type:application/json" and "Accept:application/json" and body from
the string with parameters text starting from next line and ending with [END]
{
    "param": "value",
    "param2": "${dynamicValue}"
}
[END] and get "$.data.name" and save it as "createdName"
```

After the API call is executed, if the result was stored into saved value it could be later tested like so:

```
check that stored value "createdName" itself contains "James"
```

Validation of API calls made by the browser (Chrome/Edge only)

Web browsers perform several operations behind the scenes in order to render a page or application, these include multiple requests to retrieve necessary files such as HTML, style sheets, scripts, etc. And also communicating with APIs (application programming interfaces) which provide data in a more dynamic way. testRigor allows you to verify the correct functioning of the mentioned request directly from the steps of the test case through a validation command.

The command accepts several parts for you to filter a particular request or to validate more:

- Request URL: We will find requests to a target URL starting with your input
- Request method: GET, POST, PUT, PATCH, DELETE, etc
- Request headers: filtering among the requests those with headers containing your input
- Request body: filtering requests sending data containing your input
- Response status code: finding a response received with that status code
- Response headers: finding a response received with headers containing the input

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testRigor will look for the requests/responses that match the parameters specified on your command, using the priority determined by the following list:

- · Filter by request URL matching
- · Filter by request method matching
- · Filter by request headers matching
- Filter by request body matching
- Filter by response status code
- Filter by response headers

Note: these filters act as a pipeline, so each one will receive the output of the one before. A validation with all the parameters would look like:

```
check that api call was made to POST from stored value "myURL" with headers
containing "some-header-value" and "\"Content-Type\":\"application/json\"" and text
starting from next line and ending with [END]
"Referer":"https://testrigor.com"[END] and the request body containing "some data"
and the response code was "200" and response headers containing "resp-header-value"
```

Simpler ones can be made of course:

```
"200"

check that api call was made to url "https://testrigor.com" with headers containing from stored value "myHeader"

check that api call was made with response headers "some-value" and from stored value "myHeaderVariable"
```

check that the browser called api "https://testrigor.com" and response code was

Request body types to filter

testRigor allows the user to specify multiple body parameters to filter requests. Each body parameter can be a TEXT, a JSON or a JSON PATH.

Text body parameter

Text is the default body parameter type, so if the user does not specify a type, we will use the text type.

```
check that api call was made to POST "https://testrigor.com" with body containing
"some_data1" and text "some_data2"
```

JSON body parameter

To use a JSON body parameter, the user must specify the word **json** before the parameter value. The parameter value must be composed of a key and a value divided by a colon (:) as in the example below.

```
check that api call was made to POST "https://testrigor.com" with body containing
json "key1 : value1" and json "\"key2\":\"value2\""
```

JSON PATH body parameter

example

To use a JSON PATH body parameter, the user must specify the word **json path** before the parameter value. The parameter value must be a valid json path.

```
check that api call was made to POST "https://testrigor.com" with body containing
json path "$.some_path[?(@.value < 10)]"</pre>
```

The user can use more than one type of parameter in the same step.

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Mocking API calls

testRigor supports mocking response data (headers, body and/or http status code) for API calls made inside your application.

```
mock api call <TYPE> "<API_URL>" returning body "<MOCK_BODY>"
```

IOCK_BODY>"

For example:

```
mock api call get "https://dummy.restapiexample.com/api/v1/employees" with headers
"a:a" returning body "This is a mock response" with http status code 200
```

In the example above any GET calls to the endpoint

"https://dummy.restapiexample.com/api/v1/employees" with the headers "a:a" will respond with the testRigor mock, with status 200.

Some useful cases are:

- You might want to use mocking APIs if you are using third-party API calls. Those calls can be charged and expensive, so you can mock the responses instead of calling the real service.
- You can test your application individually if servers are unstable or down.
- You can test specific scenarios, for example, if you want to test a scenario where the server returns error.

Uploading files

File upload is supported out of the box. Just use it like the following:

```
enter stored value "keyName" into input file "fileField"
```

example

```
enter "<FILE_URL>" into file input "fileField"
```

example

The most common way to upload files is without specifying the name of the input:

```
enter stored value "myFile" into input type file
```

You can also specify the input type file field by indexing or relative location:

```
enter stored value "myFile" into 3rd input type file
enter stored value "myFile" into input type file in the context of "Select file"
```

*Note: In most cases, clicking on the button that opens the file directory is not necessary to upload the file and should be omitted. If this does not work, you can try clicking on the button, entering the file, and then closing the directory with a command appending using ocr only using the mouse. Where "fileField" is a file input element (i.e., input type="file" ...), you can upload files up to 10MB into testRigor storage in the "Test Data" section, then use it by name as a stored value. Alternatively you can use your own URL. If you choose to upload from your own URL, the link should be downloadable. Since files must always be uploaded during executions from the testRigor environment (whether stored in test data or called by URL) and cannot be directly uploaded from users' local storage, only in very rare cases is it necessary to include commands in the script to click the button that prompts the file directory or file finder.

You can upload a file into a testRigor mobile device using the following action:

```
upload file from saved value "sampleFile"
upload file "https://some-page.com/path-to-file" to mobile device
```

The file will be uploaded into Downloads folder on the Android device.

Multiple files

Multiple files upload can be done like so:

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```
enter from the string with parameters text starting from next line and ending with
[END]
${file_var_one}
<FILE_URL>
[END] into file input "myFileInput"
```

example

Working with folders

If the input element has a webkitdirectory attribute, e.g. - <input type="file"

webkitdirectory ... this element is expecting a folder. If you try uploading a file, we will put it into a temporary folder and enter that value. However, if you want to upload an actual folder, you can zip the folder and use it as an input. In such case, we will unzip the file, preserving directory structure and enter the root path. This is similar to the drag folder action.

Note: This does NOT work in headless mode. It also does NOT work with Internet Explorer

Template files

You can also specify files containing comma separated values (CSV) and parameterize those with variables (any stored value) in the form \${nowDateIso}.

The file should be in CSV or TXT format and contain the values and variables in the form:

```
some value, ${variable1}, another value
${variable2}, fixed value, ${variable3}
```

example

To allow templating you need to use the word "template" like the following

```
enter template stored value "keyName" into input file "fileField"
enter template "<FILE_URL>" into file input "fileField"
```

<u>example</u>

Phone calls

testRigor supports making a call through $\underline{\text{Twilio}}$. There is a section in the application configuration

Integrations for setting Twilio parameters; it is required for making calls.

After the integration is setup you can add custom steps like:

```
call "+15344297154" and validate it was picked up
```

example

```
make call to "+15344297154" and check it was answered
```

<u>example</u>

```
call to +15344297154
```

<u>example</u>

```
call "+15344297154" and check it was completed
```

<u>example</u>

```
call "+15344297154" from "+15551234567" and verify it is ringing
```

example

```
check that phone call from "+15344297154" is ringing
```

example

```
check that phone call from "+15344297154" was answered
```

example

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Number to call from is optional and may need to be allocated prior to using. Numbers to call from and to can be from stored values or parameterized strings:

```
call from stored value "allocatedNumber" to stored value "answerPhoneNumber"
example
```

SMS messages (Phone Text)

You can send messages thanks to <u>Twilio</u> integration. There is a section in the application configuration under Integrations for setting <u>Twilio</u> parameters; it is required for sending messages. Then you can add custom steps like:

```
sms "+15344297154" with body "this is content" and validate it was sent
```



example

```
send sms to "+15344297154" with content "this is content"
send message to "+15344297154" with text "this is content" and check it was
delivered
```

example

send message from +15551234567 to "+15344297154" with text "this is content" and check it was failed message from +15551234567 to "+15344297154" with body "this is content" and check it was not delivered

Number from which to send message is optional and may need to be allocated prior to using. You can also check SMS messages and validate and store their contents:

```
check that sms from "+12345678901" to "+12345678902" contains "Code" and matches
regex "Code\:\d\d\d\d" and save it as "sms"
```



```
check that sms to "+12345678902" matches regex "Code\:\d\d\d\d" and save it as "sms"
extract value by regex "(?<=Code\:)[0-9]{4}" from "sms" and save it as
"confirmationCode"</pre>
```

Number from, number to, and body can be taken from stored values or parameterized strings. Additionally, message body may be a multiline string:

```
send sms from stored value "allocatedNumber" to stored value "answerPhoneNumber"
with content from string with parameters starting from next line and ending with
<END>
${answerCode} b
<END>
```

example

You can request a temporary phone number from $\underline{\text{Twilio}}$. There is a section in the application configuration under

Integrations for setting <u>Twilio</u> parameters; it is required for making calls.

After the integration is setup you can add custom steps like:

```
allocate a temporary number and save it as "newNumber"
```



This custom step will request a new phone number (Twilio charges will apply) and save it in a variable "newNumber", which you can use to check for incoming calls or messages. When the test run finished, this number will be released automatically.

Here is an example of testing a 2FA login with SMS:

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```
click "Sign in"
enter "jacob" into "Username"
enter "jacobs-secure-password" into "Password"
click "Verify me"
check that sms to "+12345678902" is delivered and matches regex "Code\:\d\d\d\d\d" and
save it as "sms"
extract value by regex "(?<=Code\:)[0-9]{4}" from "sms" and save it as
"confirmationCode"
enter saved value "confirmationCode" into "code"
click "Continue to Login"
check that page contains text "Welcome, Jacob!"</pre>
```

Login support

testRigor supports login with a single command like so:

```
login
```

example

This action identifies and performs the necessary steps required to login to the application automatically. After running successfully the first time, it creates a rule named Autogenerated Login for the application containing the identified steps, that you can override by creating a reusable rule with the same name.

For example, for an application with a simple email and password login, the steps executed and included in the rule would be:

```
enter stored value "username" into "email"
enter stored value "password" into "password"
click "Log In"
```

Note that login command relies on having login credentials configured for your application on testRigor.

Email testing

testRigor supports testing with both sending emails as well as receiving and validating emails:

```
send email to "user@customer.com" with subject "Test message" and body "Hi, this is
a test, this is just a test message."
check that email from "user@customer.com" is delivered
```

example

Sending emails also supports sending attachments by referencing a URL of a file you'd like to attach:

```
send email from "sender@customer.com" to "recipient@customer.com" with subject
"Test message", and body "Hi, this is a test, this is just a test message.", and
attachment from saved value "Sample File"
```

example

```
send email from "sender@customer.com" to "recipient@customer.com" with subject
"Test message", and body "Hi, this is a test, this is just a test message.", and
attachment "http://online.com/file/name.pdf"
```

example

Notes:

- 1. "to" and "from" can be used at the same time. If not specified, "from" address will default to "noreply@testrigor-mail.com".
- 2. A stored file defined in "Test Data" can be used as an optional attachment. An attachment can also be a link to a file available online without username/password.
- 3. Both "from" and "to" addresses can be filled from stored values (e.g., "to saved value "newEmail" and/or "from saved value "newEmail")

Checking email will automatically open and render it as an HTML page in a desktop browser window:

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check that email to "<random-user>@testrigor-mail.com" from "user@customer.com" is delivered

example

check that two emails to "user@customer.com" and "Confirm" in subject were delivered

example

check that one or more emails to "user@customer.com" and "Confirm" in subject were delivered

example

example

check that email to saved value "newEmail" was received

check that email to saved value "newEmail" from "admin@customer.com" and "Confirm" in subject was received

example

check that email to saved value "newEmail" and "<regular expression>" in subject was 📑 received

If you need to render the message in the browser of the same mobile device where you test your app or website (if tested on a mobile device), e.g. - when validating a sign up test case, or just want to see how it looks on a small screen, you can mention this in the action like so:

check that email to "<random-user>@testrigor-mail.com" and "Confirm" in subject was received and show in mobile

example

In some cases you may need to check that email was not sent, here is how to do this:

check that email to "<random-user>@testrigor-mail.com" from "user@customer.com" was not delivered

example

Notes:

1. If the email count is not specified, we assume that only one message is expected. Multiple emails are treated as an error; so in order to avoid receiving the error message, specify the number of emails that should be expected or simply inform the system that more than one can be sent ad done below:

check that one or more emails to saved value "<random-user>@testrigor-mail.com" | were received

example

2. The user should send a message to the following address:

<random-user>@testrigor-mail.com , where <random-user> cab be any valid email handle. In order to avoid a conflict it is recommended that the user handle will contain customer name and some random part, e.g. hfynerifj@testrigor-mail.com. This is important when you are running email tests in multiple browsers and/or on multiple machines at the same time. In this case it is your responsibility to ensure that you are not getting messages, meant for another test case run.

3. The user is expected to add some wait time before checking email. This check action will validate delivery, but not wait for the message to arrive. For example:

wait 2 minutes

4. Once the action has been executed successfully, the message is deleted from the mailbox and rendered in a new tab. Multiple emails will be marked as error, but each one will be rendered in a separate tab. You can switch between tabs using switch to tab "1", switch to tab "2", etc. Note that old content will stay in the tab before the first rendered email message. In most cases it is tab "1", unless you opened more tabs.

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- 5. Each email tab is rendered as an html page, so you can use any actions that you would use on an html page. There are a few useful element ids that will help getting specific parts of an email:
 - "message-froms" a list of "From" addresses (usually one address)
 - "message-subject" subject line
 - "message-date" message sent date and time in Pacific Time zone.
 - "message-tos" a list of "To" addresses
 - "message-ccs" a list of "CC" addresses
 - "message-bccs" a list of "BCC" addresses
 - "message-reply-to" "Reply To" address
 - "message-text" the message text
 - "message-attachments" a list of attachments (file names only)
- 6. If you want to check again, you need to re-send the mail. Your custom actions cannot contain multiple "check" actions for the same message.
- 7. Multiple recipients can be separated with "and":

```
send email to saved value "newEmail" and saved value "newEmail2" with subject
"Test" and body "Hi"
```

Lì

example

8. When checking emails we only take into account those sent after a specific test case has started. This is to avoid a conflict when an email was left unchecked from a previous, unfinished run.

Example of a test for a sign-up flow:

```
click "Sign up"
generate unique email, then enter into "Email" and save as "generatedEmail"
generate unique name, then enter into "Name" and save as "generatedName"
enter "PasswordSuperSecure" into "Password"
click "Submit"
check that email to stored value "generatedEmail" was delivered
click "Confirm email"
check that page contains "Email was confirmed"
check that page contains expression "Hello, ${generatedName}}"
```

Browser cookies, localStorage, sessionStorage, userAgent

The user can set/get/clear browser cookies like this:

set cookie "cookie value" as "cookie-name"

```
example
set cookie from saved value "variableName" as "cookie-name"
```

example

```
get cookie "cookie-name" and save it as "variableName"
```

example

clear cookies

<u>example</u>

set/get/clear browser localStorage and sessionStorage items like so:

```
set item "item-data" in sessionstorage as "item-name"
```

example

```
get item "item-name" from session storage and save it as "varName"
```

example

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clear sessionstorage example set item "item-data" in localstorage as "item-name" example get item "item-name" from local storage and save it as "varName" example clear localstorage example and set/unset a custom userAgent value like this: set user agent to "My User Agent" example unset user agent example **Comments support** testRigor supports one-line comments separated by // like so: click "my-cryptic-button" // actually clicks "add to cart" example **Audio testing** You can test audio by recording it and then comparing it with another recording in the same test or an external file. (Audio testing is currently available for Linux/Ubuntu devices only). Recording You have the option to record all the audio that is being reproduced in a tab. The command below in an example: record audio through 10 seconds after clicking "audio-trigger" and save as "my-recording" You can also record the audio for a specific audio tag as in the example below: record audio from "my-audio-tag" through 20 seconds after clicking "audio-trigger" and save as "my-specific-recording" Comparing After having a recording that is saved as a variable, you can compare it against another recording. For example: check that audio from "my-recording" is "70%" similar to "my-specific-recording" You can also compare it against an external file: check that audio from "my-recording" is "85%" similar to "https://some-page.com/path-to-file"

The supported file extension for external files is .wav

When comparing we can test positive or negative by using **similar** or **different**, for example:

check that audio from "my-recording" is "99%" similar to "my-specific-recording"

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or

```
check that audio from "my-recording" is "1%" different to "my-specific-recording"
```

Playing

If you need to reproduce audio as it was someone speaking through a microphone you could load the .wav that is going to be reproduced from a remote file.

For tests running in linux, virtual devices are used (microphone/speakers) otherwise we attach to existing

< audio > tags

You can reference a remote file to download

```
play audio "https://some-page.com/path-to-file"
```

Or a reference from test data

```
play audio "test-data-ref"
```

If more control about when to play the audio and when to stop it is needed, you can use

```
play audio "sound-to-play-ref" after clicking "start-recording" then click "stop-
recording"
```

Validating

If you need to check that audio is produced (e.g., that a video is playing correctly with sound), you can use the following commands:

```
check that audio is playing
```

Negative test is also available:

```
check that audio is not playing
```

In both cases, a 10-second audio sample will be recorded, which will be available in the artifacts for download for manual validation if needed.

Database Query Support

You can connect to certain external databases through a JBDC driver and execute commands directly from your tests.

Managing Multiple Connections

It's possible to configure more than one connection. In this case, you can indicate the connection to be used by name:

```
run sql query "select top 1 UserID, LastName, FirstName from Users;" using
connection "connectionName"
run no-sql query "" using connection "anotherConnectionName"
```

Note: If the connection name is not passed, the application will use the first configured.

Overriding the settings

You can update the connection settings at runtime using the following variables:

"connectionName:usernameJDBC", "connectionName:passwordJDBC" and

"connectionName:connStringJDBC":

```
save value "user" as "connectionName:usernameJDBC".
save value "pass12345" as "connectionName:passwordJDBC
save value "jdbc:mysql:host:port" as "connectionName:connStringJDBC"
run sql query "select top 1 UserID, LastName, FirstName from Users;" using
connection "connectionName"
```

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SQL Database Support

We have driver support for the most popular databases such as *MySQL*, *PostgreSQL*, *SQL Server*, *Snowflake*, and *Grid Gain*.

You can use SQL commands in the test steps to retrieve, insert, update, and delete rows.

9 Select

The following example will get the first row and save each pair of column-name/value into a stored value with the column name as the key:

```
run sql query "select top 1 UserID, LastName, FirstName from Users;"
```



example

Then you can use the stored values as follows:

```
enter stored value "FirstName" into "First name"
check that stored value "LastName" itself contains "Doe"
```



example

∅ Insert

Executes the defined insert statement, for example:

```
run sql query "insert into Users(UserID, FirstName, LastName) values (3, 'Jon',
'Doe');"
```

<u>example</u>

No-SQL Database Support

We have driver support for MongoDB databases.

You can use MongoDB commands in the test steps to retrieve, insert, update, and delete documents.

Find

The following example will get the first document and save each pair of property-name/value into a stored value with the property name as the key:

```
run no-sql query "{\"find\": \"Users\", \"limit\": 1, \"projection\": {\"userId\":
1, \"firstName\": 1, \"lastName\": 1}}"
```

Then you can use the stored values as follows:

```
enter stored value "FirstName" into "First name"
check that stored value "LastName" itself contains "Doe"
```

Insert

Executes the defined insert command, for example:

Chrome Extensions Testing

You can use your extension to test it or test the integration with your/other pages.

A CRX file of the extension is needed for this feature. Upload it in Settings -> Integrations -> Chrome Extensions, and assign a name to it as it will be needed for its use in the commands to open the extension.

To open the extension in a new tab, use the following command:

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open extension "myextension"

To open the extension in a pop up or to simply enable the extension, you can use this command:

```
activate extension "myextension"
```

Captcha resolution (not included by default)

You can resolve image to text and Google Re-Captcha V2 and V3 directly from your test case steps. Keep in mind this is an extra feature and you will have to contact our sales team to include it in your plan.

Image to text type of captcha

This type of captcha is very common and consists mainly of an image showing a sequence of distorted letters and numbers. To solve it, just indicate in your test the type of captcha as image and point to the element containing the captcha or captcha image. The result of the operation will be saved as a variable called "captchaTest" and you can enter it on the corresponding input.

```
resolve captcha of type image from "captcha element"
```



Then, you can use the extracted text as follows:

```
enter stored value "captchaText" into "Enter captcha text here..."
click "Validate"
```

Google Re-Captcha type of captcha

Google Re-Captcha comes in many flavors and is usually in the page as a custom script that renders (or not depending on the settings) a button to verify if the user is a human. In this case you don't have to specify an element since we're going to detect the captcha on the page and solve it. If the configuration of the captcha has a callback, we will even call it for you. Also, we're going to store the resulting token into a variable called "captchaToken" so you can enter it on the corresponding input or use it inside a javascript snippet to validate it if such callback is not defined.

```
resolve captcha of type recaptcha
```



Then, if a callback was not detected into the configuration of the captcha, you can use the extracted token as follows:

```
enter stored value "captchaToken" into "g-recaptcha-response"
click "Validate"
```



Scan QR Code

testRigor supports scan QR Code, getting value and saving result as a stored value.

You can use the Scan QR Code feature to read a QR Code image saved as variable or to read a QR Code image from screen.

Scan QR Code from stored image

```
scan qr code value from stored value "saved-qr-code" and save as "code"
```



In the command above we are reading the QR Code image stored as "saved-qr-code" and saving the result in the variable "code"

example

Scan QR Code from screen

You can specify any element from screen to scan as QR Code.

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```
scan qr code value from "code-container" on the right of "QR Code 2" and save as "code"
```

In the command above we are reading the QR Code image from element "code-container" that is to the right of "QR Code 2" on the screen and saving the result in the "code" variable example

testRigor advanced topics

testRigor provides you full interface to JavaScript with ability to access the full power of testRigor via interface.

JavaScript Support

testRigor allows you to use JavaScript and refer to testRigor's commands like so:

```
store value "hello" as "var1"
execute JavaScript text starting from next line and ending with [END]
  if (testRigor.hasStoredValue("var1")) {
    testRigor.execute('enter stored value "var1" into "Message"');
  }
  testRigor.execute('click "Update"');
  testRigor.execute('click that page contains text from stored value "var1"');
[END]
```

JavaScript supported is fully ECMAScript 5.1 compatible.

testRigor interface

testRigor interface is as following:

```
interface TestRigor {
    /**
    * True if variable had been assigned a value.
    */
    boolean hasStoredValue(String storedValueName);
    /**
    * Gets the value of the variable.
    */
    String getStoredValue(String storedValueName);
    /**
    * Sets the value of variable.
    */
    String putStoredValue(String storedValueName, String value);
    /**
    * Extracts the full variable-to-value map.
    */
    Map<String, String> getReadOnlyStoredValueSMap();
    /**
    * Gets tree of elements for the current screen.
    */
    UiElement getNodeTree();
    /**
    * Execute the commands. Can be multiple commands new-line separated.
    */
    boolean execute(String commands);
```

Screen/Page structure

The interface UiElement is as following:

Press Ctrl+F to search

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```
interface UiElement {
  String getElementName();
  String getHtmlNodeName();
  double getY();
  double getX();
  double getHeight();
  double getWidth();
  UiElement getParent();
  String getText();
  String getPath();
  String getShortPath();
  String getFullPath();
  String getName();
  String getLabel();
  String getHint();
  String getTitle();
  String getClassName();
  String getResourceId();
  String getOcrText();
  String getPlaceholder();
  String getAlternative();
  String getType();
  String getValue();
  String getAriaLabel();
  String getRole();
  boolean isVisible();
  boolean isEnabled();
  boolean isClickable();
  boolean isChecked();
  boolean hasProperty(String propertyName);
  String getProperty(String propertyName);
```

Above, most of the properties are directly from XML/HTML, except calculated ones:

- 1. x
- 2. y
- 3. height
- 4. width
- 5. visible
- 6. ocrText only available if OCR is enabled
- 7. shortPath short version of XPath leveraging ids where possible
- 8. fullPath direct full XPath from the root
- 9. path one of the above based on the settings

Note, that id is stored in resourceId attribute

Element interactions

Referencing elements is parsed using ML-based NLP, but can be thought as the following stricture in simplified Pseudo-EBNF:

```
command [index] [typeOfElement] ["containing"] ["saved value" | "parameterized
string"] [elementReference] ["in the context of", elementReference]
```

Where:

```
elementReference = \"elementName\", {"or", elementReference} [insideTableReference]
```

Where:

```
insideTableReference = "at" ["row", elementReference] ["column", elementReference]
```

For example:

```
click on the first button "delete" or "remove" in the context of the first table
"visible" at the row containing saved value "generatedId" and column "actions"
```

Or you can refer elements directly through:

```
click XPath "/html/body/div[3]"
```

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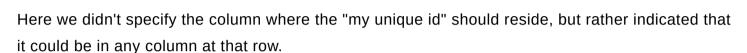
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Automate testing tables

Selecting a row in a table

testRigor has a very powerful way of dealing with whatever looks like a table for a user. You can refer to elements of the table by specifying row and column. And to specify a row there is a powerful SQL-like language is available. For example, you can say things like:

```
click "Delete" inside of table at row containing "my unique id" and column "Actions"
```



You can also construct SQL-like expressions containing one or multiple columns with different validations. For example:

```
check that table with "Country" equal to "United States" and "City" equal to "Saint
Petersburg" and "State" equal to "Florida" at column "Status" contains "Flourishing"
```

Here we used 3 different conditions to identify the row connected with the boolean operator AND. The following boolean operators are supported:

- AND
- OR
- NOT
- Brackets ()

and you can also use brackets. The condition calculation will follow the standard boolean logic. The condition above could also be expressed like so:

```
check that table with not("Country" not equal to "United States" or "City" not equal
to "Saint Petersburg" or "State" not equal to "Florida") at column "Status" contains
"Flourishing"
```

You can learn more about how boolean operators work here.

The exciting thing about testRigor is that these instructions would work regardless of how your table is rendered. It could be rendered as an HTML TABLE tag with TRs and TDs today and completely div-based tomorrow. It doesn't matter, your code will continue to function anyway.

For an example, let's consider the following table:

#	Id	Name	Ship	Status	Actions
1	york1	Yorktown	Enterprise	Alright	Arrive Cancel
2	spk2	Spock	Enterprise	Alright	Listen to Ignore
3	nyo3	Nyota	Enterprise	Alright	Open channel Promote
4	spk2	Spock	Kelvin	Alright	Listen to Ignore
5	nyo3	Nyota	Kelvin	Alright	Open channel Promote

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In the example above, rows have no unique meaningful identifiers. We only have row numbers which might be generated automatically to show the index of a row. We can't rely on them consistently because they will change the next time the page refreshes. How are we going to on a button with Spock and Kelvin? Here is how:

```
click on the first button in the context of table with "Name" equal to "Spock" and
"Ship" equals to "Kelvin" at column "Actions"
```

Calculating aggregates

You can calculate and work with aggregate values on columns or specify a condition that would validate against all values in a column. Here are some examples:

Order of values

To check the order of the values contained in a row or column

```
check that table "actions" at column "Name" has values sorted in ascending order
check that table "actions" at column "Name" has values sorted in descending order
```

Number of values (count)

To check the value count in a row or column

```
check that table "actions" at column "Name" the value count is greather than "3"
check that table "actions" at third column the value count is less than "20"
check that table "actions" at column "Name" the value count is equals to "5"
check that table "actions" at third column the value count is equals to stored value
"expectedValueCount"
```

Sum of values

To check the sum of values in a row or column

```
check that table "actions" at column "#" the sum of values is greater than "10"
check that table "actions" at first column the sum of values is less than "50"
check that table "actions" at column "#" the sum of values is equals to "15"
check that table "actions" at first column the sum of values is less than stored
value "expectedValueSummatory"
```

Average of values

To check the average of values in a row or column

```
check that table "actions" at column "#" the average of values is greater than "1"
check that table "actions" at first column the average of values is less than "6"
check that table "actions" at column "#" the average of values is equals to "3"
check that table "actions" at first column the average of values is equals to stored
value "expectedValueAvg"
```

JsonPath Overview

testRigor uses <u>JsonPath</u> as a way to help you to refer to elements of returned JSON. <u>JsonPath</u> expressions always refer to a JSON structure in the same way as XPath expression are used in combination with an XML document. The "root member object" in JsonPath is always referred to as

```
$ regardless if it is an object or array. JsonPath expressions can use the dot-notation
```

```
$.store.book[0].title
```

or the bracket-notation

```
$['store']['book'][0]['title']
```

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Operators

Operator	Description
\$	The root element to query. This starts all path expressions.
@	The current node being processed by a filter predicate.
*	Wildcard. Available anywhere a name or numeric are required.
	Deep scan. Available anywhere a name is required.
. <name></name>	Dot-notated child
[' <name>' (, '<name>')]</name></name>	Bracket-notated child or children
[<number> (, <number>)]</number></number>	Array index or indexes
[start:end]	Array slice operator
[?(<expression>)]</expression>	Filter expression. Expression must evaluate to a boolean value.

Functions

Functions can be invoked at the tail end of a path - the input to a function is the output of the path expression. The function output is dictated by the function itself.

Function	Description	Output
min()	Provides the min value of an array of numbers	Double
max()	Provides the max value of an array of numbers	Double
avg()	Provides the average value of an array of numbers	Double
stddev()	Provides the standard deviation value of an array of numbers	Double
length()	Provides the length of an array	Integer
sum()	Provides the sum value of an array of numbers	Double

Filter Operators

Filters are logical expressions used to filter arrays. A typical filter would be [?(@.age > 18)] where @ represents the current item being processed. More complex filters can be created with logical operators && and || . String literals must be enclosed by single or double quotes ([? (@.color == 'blue')] or [?(@.color == "blue")]).

Operator	Description
==	left is equal to right (note that 1 is not equal to '1')
! =	left is not equal to right
<	left is less than right
<=	left is less or equal to right
>	left is greater than right

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Operator	Description
>=	left is greater than or equal to right
=~	left matches regular expression [?(@.name =~ /foo.*?/i)]
in	<pre>left exists in right [?(@.size in ['S', 'M'])]</pre>
nin	left does not exists in right
subsetof	left is a subset of right [?(@.sizes subsetof ['S', 'M', 'L'])]
anyof	left has an intersection with right [?(@.sizes anyof ['M', 'L'])]
noneof	left has no intersection with right [?(@.sizes noneof ['M', 'L'])]
size	size of left (array or string) should match right
empty	left (array or string) should be empty

Path Examples

Given the JSON

```
"store": {
    "book": [
            "category": "reference",
            "author": "Nigel Rees",
            "title": "Sayings of the Century",
            "price": 8.95
            "category": "fiction",
            "author": "Evelyn Waugh",
            "title": "Sword of Honour",
            "price": 12.99
            "category": "fiction",
            "author": "Herman Melville",
            "title": "Moby Dick",
            "isbn": "0-553-21311-3",
            "price": 8.99
            "category": "fiction",
            "author": "J. R. R. Tolkien",
            "title": "The Lord of the Rings",
            "isbn": "0-395-19395-8",
            "price": 22.99
   ],
    "bicycle": {
       "color": "red",
        "price": 19.95
"expensive": 10
```

The following results will be returned:

JsonPath	Result
<pre>\$.store.book[*].author</pre>	The authors of all books

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JsonPath	Result
\$author	All authors
\$.store.*	All things, both books and bicycles
\$.storeprice	The price of everything
\$book[2]	The third book
\$book[-2]	The second to last book
\$book[0,1]	The first two books
\$book[:2]	All books from index 0 (inclusive) until index 2 (exclusive)
\$book[1:2]	All books from index 1 (inclusive) until index 2 (exclusive)
\$book[-2:]	Last two books
\$book[2:]	Book number two from tail
\$book[?(@.isbn)]	All books with an ISBN number
<pre>\$.store.book[?(@.price < 10)]</pre>	All books in store cheaper than 10
<pre>\$book[?(@.price <= \$['expensive'])]</pre>	All books in store that are not "expensive"
\$book[?(@.author =~ /.*REES/i)]	All books matching regex (ignore case)
\$*	Give me every thing
\$book.length()	The number of books

Regex Random String Generation Support

In addition to a <u>simple way to generate random data</u>, testRigor also supports a way to use Regular Expressions (Regex) for more complex scenarios. For instance, you can generate a random tag like this:

```
generate by regex "<(a|button)>data<\/\1>", then enter into "Tag data" and save as
"generatedTag"
```

which generates <a>data or <button>data</button> . Or you might want

```
generate by regex "https://(www\.)?([a-z][a-z0-9-]{2,30}[a-z0-9]\.){1,5}
(com|edu|co\.uk|info|io)", then enter into "URL" and save as "generatedUrl"
```

which generates a unique URL in the format of "https://www.abc.de.com".

The rule of thumb to use ReGex is to avoid it as much as possible since it is very hard to read for anyone who is not familiar with it. Always try simple template first. One of the use cases where you

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might be forced to use ReGex is if what you generate must have a variable length.

testRigor supports both generation of random strings based on Regex as well as validating and extracting data.

Regex Random Data Generation Cookbook

For simple scenarios like generating emails, phone numbers, credit card numbers, etc. please see simple template. The full command will look like this:

generate by regex "<YOUR_REGEX>", then enter into "Email" and save as "newEmail"



Regex	Use case
Togo.	OSE CASE
[A-Z][a-z]{2,50}	Random word starting from upper case like "Hello"
[a-z]{2,50}	Random word all lower case like "hi"
[1-2][0-9]{0,8}	Random number
((1[0-2]) 0[1-9])-((0[1-9]) ([1-2][0-8]))-((20[0-2] [0-9]) (19[0-9]{2}))	Dates in mm-dd-yyyy format
((20[0-2][0-9]) (19[0-9]{2}))-((1[0-2]) 0[1-9])- ((0[1-9]) ([1-2][0-8]))	Dates in yyyy-mm-dd format
((1[0-2]) (0[0-9])):([0-5][0-9]) [AP]M	Time in 11:34 AM AM/PM format
((2[0-3]) ([0-1][0-9])):([0-5][0-9])	Time in 14:25 24hr format
(www\.)?([a-z][a-z0-9-]{2,30}[a-z0-9]\.){1,5}[a-z] {2,3}	Domain name
https://(www\.)?([a-z][a-z0-9-]{2,30}[a-z0-9]\.){1,5} [a-z]{2,3}	URL without path
https?://(www\.)?([a-z][a-z0-9-]{2,30}[a-z0-9]\.) {1,5}[a-z]{2,3}(/[a-z0-9-]{2,10}){0,5}/?(#[a-z0-9])?	Full random URL
((25[0-5] 2[0-4]\d [01]?\d\d?)\.){3}(25[0-5] 2[0- 4]\d [01]?\d\d?)	IP v4
((\+[0-9][0-9]? [0-9]{3}) (\(0[0-9]{3}\\))) [0-9]{3} [0-9]{4}	International phone numbers in a standard <u>E.123</u> format

Regex Random Generation Syntax Support

testRigor provides full support for Java-like regular expressions with POSIX character classes and full multibyte Unicode support for international characters. A simple example is:

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generate by regex $[A-Z][a-z]\{2,50\}$, then enter into Name and save as "generatedName"

Construct	Description	Example
A text	All regular text is copied as is. This is not changeable part. In the example on the right Lakshmi will be posted as is.	generate by regex "Lakshmi", then enter into "Name" and save as "name"
I	Select one option from another. testRigor will randomly choose from the options available. In the example on the right, it will use either Lakshmi or Meera	<pre>generate by regex "Lakshmi Meera", then enter into "Name" and save as "name"</pre>
()	Grouping parts. In case if something needs to be executed on the whole rater than the last symbol. Lakshmi+ will result in "Lakshmiiiii", where as (Lakshmi)+ will result in "Lakshmi Laskhmi Lakshmi"	<pre>generate by regex "(Lakshmi)+", then enter into "Name" and save as "name"</pre>
?	Add or do not add the part randomly. The example would result in "Lakshmi" about 50% or the time and empty string other 50%	<pre>generate by regex " (Lakshmi)?", then enter into "Name" and save as "name"</pre>
+	Repeat the part at least one and at most 100 times. The example on the right will have at least one Lakshmi but can also have up to 99 more.	<pre>generate by regex "(Lakshmi)+", then enter into "Name" and save as "name"</pre>
*	Repeat the part at least zero and at most 100 times. The example on the right could produce an empty string or up to 100 "Lakshmi" strings.	<pre>generate by regex "(Lakshmi)*", then enter into "Name" and save as "name"</pre>
{N}	Repeat the part precisely N times. In example on the right "Lakshmi" will be repeated twice like this: "Lakshmi Lakshmi".	generate by regex "(Lakshmi){2}", then enter into "Name" and save as "name"
{N,M}	Repeat the part between N and M times. In example on the right "Lakshmi" can be repeated either once or twice.	<pre>generate by regex "(Lakshmi){1,2}", then enter into "Name" and save as "name"</pre>
[abc]	Select just one of the characters specified. In the example only a, b, or c will be selected randomly.	<pre>generate by regex "[abc]", then enter into "Name" and save as "name"</pre>
[a-c]	Select just one of the characters in the range specified. In the example only a, b, or c will be selected randomly.	<pre>generate by regex "[a-c]", then enter into "Name" and save as "name"</pre>

Press Ctrl+F to search

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Construct	Description	Example
[^abc]	If the first symbol in square brackets is ^, then testRigor will use visible symbols except the ones provided. In the example, it could be any character like 'A', '7', 'd', '&', etc. This reversal applies universally and can be used with ranges as well, like <code>[^a-c]</code> , which in this case, will have the same effect.	<pre>generate by regex "[^abc]", then enter into "Name" and save as "name"</pre>
\s	One character of any whitespace like space or tab.	<pre>generate by regex "\s", then enter into "Name" and save as "name"</pre>
\w	One character of lower and upper case Latin letters, digits and '_'. Equivalent to $[a-zA-z0-9_{-}]$.	<pre>generate by regex "\w", then enter into "Name" and save as "name"</pre>
\d	One digit character. Equivalent to [0-9].	<pre>generate by regex "\d", then enter into "Name" and save as "name"</pre>
	Any character. testRigor will generate characters that can be typed on a US keyboard randomly.	<pre>generate by regex "\d", then enter into "Name" and save as "name"</pre>
	Escapes the following special character. For example, if you'd like to include '[' and ']' into the set of characters you use, you could specify [\[\]]	<pre>generate by regex "[\[\]]", then enter into "Name" and save as "name"</pre>
\n	Just one new line character.	<pre>generate by regex "\n", then enter into "Name" and save as "name"</pre>
\t	Just one tab character.	<pre>generate by regex "\t", then enter into "Name" and save as "name"</pre>
\N	A reference to the previously generated Nth group. For example, <(a button)>data<\/\1> will generate the opening and closing of the same tag ("a" or "button" in this case).	<pre>generate by regex " <(a button)>data<\/\1>", then enter into "Code" and save as "code"</pre>

Advanced Topics

When we were creating the Regex generator we wanted the syntax to be as close as it is technically possible to Java version of Regex (Pattern). You might find a lot of additional quirks and features to be similar to Java's version. However, the parser was built from scratch and had to be generation-compatible, so there are some differences. For instance, we included support for almost all POSIX character classes. However, we emulated how Java works with backreferences and group numbering. Also, we tried to build parser in a way that would produce the most readable and understandable error messages we could do.

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Question	Answer
How does testRigor generates random?	testRigor generates random numbers with pseudo-random sequence seeded with nanoseconds.
Is there a bound for unbounded operations like * ?	Yes, default bound is 100
What is I need more than 100 symbols generated?	You can use range, and specify any number as upper bound. testRigor will repeat up to your specified number or 10,000, whichever is smaller.
Does testRigor support intersections like [a&& [b]] ?	Yes for validation/search. Not yet for random data generation.
Does testRigor support multicharacter Unicode symbols?	Yes, naturally out of the box. You can specify $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
Does testRigor support non-capturing groups?	Yes for validation/search. For generation positive non-capturing groups like (?<=group) will generate data, but negative groups like (?!group) will be ignored.
Does testRigor support flags like (?i) ?	Yes for validation/search. Not yet for random data generation.

More simple use cases like phone numbers, passport numbers, SSNs, emails, etc. see <u>simple</u> template.

Regex for validations and search

You can use Regex for search/validation in testRigor. testRigor will use Java 11's Regex Pattern to complile/process the Regex in this case. See the full supported syntax here. Examples of usages are:

```
check that page has regex "Current time: [0-2][0-9]:[0-5][0-9]"
check that page doesn't have regex "fail|crash|500"
check that URL matches regex "https://mycompany\.com/list/item/[a-z0-9]{2,30}"
check that text below "Current time" matches regex "[0-2][0-9]:[0-5][0-9]"
grab value of regex "[0-2][0-9]:[0-5][0-9]" and save it as "currentTime"
```

How to use simple templates to generate unique data

testRigor provides as a way to help you to easily generate unique data. For instance, you can generate unique data like phone numbers like this:

```
generate from template "###-555-###", then enter into "Phone" and save as
"generatedPhone"
```

Which would generate a unique phone number like 752-555-0912 . To do that testRigor uses 4 different symbols to indicate types of data you want to generate: #\$%* .

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Ounique data generating symbols

Symbol	Description
#	Generates a random number in range 0-9.
\$	Generates a random lower case letter in range a-z.
%	Generates a random upper case letter in range A-Z.
*	Generates a random alphanumeric symbol, either number, or lower or upper case letter (0-9, a-z, A-Z).
\	If the following symbol is one of the above or another \ then this \ symbol is removed and the following symbol is returned verbatim instead of generating a random symbol.

Examples

Keep in mind, that testRigor has already a built-in words to generate unique email or unique name. You do not need to provide a template for them. Those would work like so:

generate unique email, then enter into "Email" and save as "newEmail" generate
unique name, then enter into "Name" and save as "generatedName"



Example	Description
<pre>generate unique email, then enter into "Email" and save as "newEmail"</pre>	Generates a random email in testrigor-mail.com domain.
<pre>generate unique name, then enter into "Name" and save as "generatedName"</pre>	Generates a random
<pre>generate from template "\$**********************@testrigor-mail.com", then enter into "Email" and save as "newEmail"</pre>	Generates a random email in a custom domain.
<pre>generate from template "###-###-###", then enter into "Phone" and save as "generatedPhone"</pre>	Generates a random phone number.
<pre>generate from template "811-###-###", then enter into "Phone" and save as "generatedPhone"</pre>	Generates a random phone number in a 811 area code.
<pre>generate from template "000-##-###", then enter into "SSN" and save as "generatedSsn"</pre>	Generates a random
<pre>generate from template "4###-###-###-###", then enter into "card" and save as "generatedCard"</pre>	Generates a random VISA credit card.
<pre>generate from template "https://\$</pre>	Generates a random URL.

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Example	Description
<pre>generate from template "%**********************, then enter into "data" and save as "generatedData"</pre>	Generates a random alphanumeric data.
<pre>generate from template by string with escaped parameters "\${nowDateTimeIso}-*******", then enter into "Data" and save as "generatedData"</pre>	Generates a random alphanumeric data starting with datetime in ISO format.
<pre>generate from template "%\$</pre>	Generates a random text description.

More complex use cases in some cases might require ReGex and can be found here.

What is Boolean Logic

Boolean Logic in the context of testRigor is a way to combine boolean conditions like "Status" contains "Success". You can use three main operators to join these conditions:

- AND
- OR
- NOT
- Brackets ()

Here are some examples:

AND operator

AND operator helps to join conditions which both must be true for the result to be true. For example, "Status" contains "Success" and "City" is equal to "Paris" will only be true when the selected row contains "Success" in column "Status" and has string "Paris" in column "City" at the same time.

OR operator

OR operator helps to find a row containing one or both conditions. For example, "Status" contains "Success" or "City" is equal to "Paris" will only be true when the selected row either contains "Success" in column "Status" or has string "Paris" in column "City" or both.

NOT operator

NOT operator helps calculate the negative of the condition. For example, not "Status" contains "Success" will only be true when the selected row does not contain "Success" in column "Status".

Brackets ()

Brackets () help to group conditions together. For example, ("Status" contains "Success" or "Status" contains "In progress") and "City" is equal to "Paris" will only be true when the selected row contains "Success" or "In progress" in column "Status" and has string "Paris" in column "City" at the same time. In this example "Status" column must contain either "Success" or "In progress", and column "City" must contains "Paris".









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