

# QuIC Script

## Quantum-in-a-browser

What is  
**QuIC Script** ?

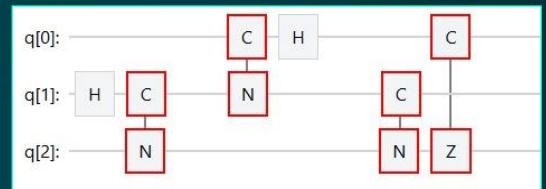
**It is a 20-qubit quantum program simulator & visualizer that runs within your browser**

### What Can I Use It For? •

- Use **QuIC Script** to simplify your onboarding process into quantum computing. Focused on quantum gates, the building blocks of quantum algorithms, it offers a straightforward and intuitive quantum programming and execution experience that doesn't require in-depth knowledge of quantum computing or any programming language syntax. Ideal for quickly testing out and validating quantum concepts and algorithms.

**QuIC Script**

IHI,ICN,CNI,HII,ICN,CIZ



## Key Features

### Interactive •

- Quick-start approach to learning quantum computing. No installation needed. Just open the browser and start writing quantum circuits. Immediate results (no compilation needed). Supports step-by-step visualization of quantum-state transitions.

### Extensible

- Being platform-agnostic makes **QuIC Script** interoperable with other quantum frameworks, such as IBM Qiskit. It can serve as the foundational compute engine for various applications including courses, lessons, quizzes, or hackathons, and supports the experimentation and creation of new business models.

### Standalone

- No usage charges. Software can be run as many times as required. No backend or cloud compute resources needed. No fear of programs being copied, or IP being stolen. No registration to external platforms needed. A flat monthly fee is charged for software support.

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# QulC Script would be suitable if you are...



## Educational Institutions

- Institutes of Higher Learning with quantum programs can use **QulC Script** as a teaching tool to introduce students to quantum computing concepts without the need for complex installations or infrastructure.

## Researchers & Quantum Engineers/Developers

- These professionals can use **QulC Script** to prototype and validate quantum circuits easier and quicker.

## Getting Started

### Getting Started

- Follow our quantum course at <https://github.com/pqcee/course-quicscript-secondary/wiki> It contains a step-by-step guide on how to run your own quantum course using QulCScript. There you will find all the starter course materials you will need.

- If you are a researcher or quantum software engineer, you can already begin building, testing, and verifying your quantum circuits. Try it out at <https://pqcee.github.io/QulCScript/>

## Specs

## Testimonials

As a Professor at SMU specializing in quantum computing, I greatly appreciated that it ran in a browser and there wasn't any installation required.

~ Prof Paul Griffin

As a Postdoctoral Researcher in quantum computing, I have found **QulC Script** to be a valuable educational tool due to its simplicity.

~ Dr Ștefan-Dan Ciocîrlan

|                                |   |
|--------------------------------|---|
| <b>Technology</b>              | Circuit Visualizer/Builder<br><b>QulC Script</b> Engine<br>Quantum-state Display  |
| <b>Environment</b>             | Javascript (WASM)   |
| <b>Minimum Browser Version</b> | Chrome v125.x<br>Edge v125.x<br>Safari v17.2.x<br>Firefox v126.x  |
| <b>Platform</b>                | Desktop and Mobile  |
| <b>Gate Depth</b>              | Up to 100,000 gates   |
| <b>Supported Gates</b>         | Hadamard (H), Pauli-X (X), Pauli-Y (Y), Pauli-Z (Z), Identity (I), $\pi/2$ Phase shift (P), $\pi/4$ Phase shift (T), Control-Not (CN), Toffoli (C..CN), Swap, and Universal (U) gates |
| <b>Qubit Count</b>             | Up to 20 qubits   |