Quantum Computing

Language	Description	Quantum Machine Learning	Open Source
Q#	A high-level quantum programming language developed by Microsoft.	Yes	No
ReCirq	A Python library for quantum circuit programming developed by Google AI.	Yes	Yes
Blueqat	An open-source quantum programming language and compiler developed by Blueqat Inc.	Yes	No
Cirq	A Python library for quantum circuit programming developed by Google AI.	Yes	Yes
OpenFermion	A Python library for open-source quantum chemistry simulation and algorithms.	No	Yes
PennyLane	A Python library for quantum machine learning developed by Xanadu.	Specifically designed	Yes
Perceval	A Python library for quantum simulation and machine learning developed by Quandela.	Specifically designed	Yes
PyQudit	A Python library for quantum simulation and algorithms.	No	Yes
PyQuil	A Python library for quantum circuit programming developed by Rigetti Computing.	Yes	Yes
OpenQASM	A low-level assembly language for quantum circuits.	No	Yes
QCL	A high-level language that is designed for quantum circuit simulation by Dr. Bernhard Ömer (AIT Austrian Institute of Technology).	Yes	Yes
Qiskit	An open-source software development kit for quantum computing developed by IBM.	Yes	Yes
Quantum++	A high-level quantum programming language in C++ library developed by softwareQ Inc.	Yes	Yes
Quipper	A high-level quantum programming language developed by Applied Communication Sciences.	No	Yes
QuNetSim	A Python library for quantum network simulation developed by the University of Bristol.	No	Yes
QuTiP	A Python library for quantum optics and quantum information science.	No	Yes
Strawberry Fields	A Python library for quantum machine learning developed by Xanadu.	Specifically designed	Yes
Pytket	A Python library for quantum circuit design and optimization developed by Quantinuum.	Yes	Yes
TensorFlow Quantum	A TensorFlow library for quantum machine learning developed by Google AI.	Specifically designed	Yes

Notes:
All of the languages listed above can be used for hybrid quantum computing, except for OpenQASM.
Q# and Cirq are the only two languages that are currently supported by all major quantum computing platforms.
OpenQASM is the lowest-level language and is often used as a target language for other languages.

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