

Digital Solutions

List of free software and digital tools

This resource lists the common free software and digital tools used for teaching, learning and assessment by Digital Solutions teachers across Queensland. This fact sheet contains links to websites that are neither related to, nor controlled by the QCAA. The QCAA does not warrant that the content of these websites will meet user needs. User discretion is advised.

Subject matter	Software
Mind mapping — for problem decomposition	<ul style="list-style-type: none">• Coggle coggle.it• Whimsical whimsical.com• Mind Map Maker app.mindmapmaker.org• Draw.io app.diagrams.net• Xmind xmind.app
Development — for development and testing of solution components	Data flow, algorithms and user interfaces: <ul style="list-style-type: none">• Draw.io app.diagrams.net• Lucidchart www.lucidchart.com• Flowgorithm www.flowgorithm.org• Quick Database Diagrams app.quickdatabasediagrams.com• Figma www.figma.com• MockFlow www.mockflow.com• Moqups moqups.com• ProtoPie www.protopie.io
Testing — for testing solution components	<ul style="list-style-type: none">• Fiddles fiddles.io• W3Schools www.w3schools.com• Accessibility checker www.accessibilitychecker.org• Usability Hub usabilityhub.com
Programming — for generating programmed components. Some tools support multiple languages.	<ul style="list-style-type: none">• PyCharm www.jetbrains.com/pycharm• IntelliJ www.jetbrains.com/idea• Thonny thonny.org• NotePad++ notepad-plus-plus.org/downloads (Windows)• Python Anywhere www.pythonanywhere.com• Wing Python IDE wingware.com• IDLE docs.python.org/3/library/idle• Visual Studio Code code.visualstudio.com (Windows)• Atom atom.io• Brackets brackets.io• Leaflet leafletjs.com/index (Advanced interactive map component)• Unity unity.com• Unreal Engine www.unrealengine.com
Databases — for generating SQL database components	<ul style="list-style-type: none">• DB Browser for SQLite sqlitebrowser.org• XAMPP www.apachefriends.org• MAMP www.mamp.info

Referencing —

for recording and formatting in-text references and a reference list for assessment

- MyBib www.mybib.com
- Cite This For Me www.citethisforme.com
- Zotero or ZoteroBib www.zotero.org



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