

- Taiko Drum Master (太鼓達人)

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What is Taiko Drum Master

https://www.youtube.com/watch?v=REnObDG6H3k&nohtml5=False



Start window

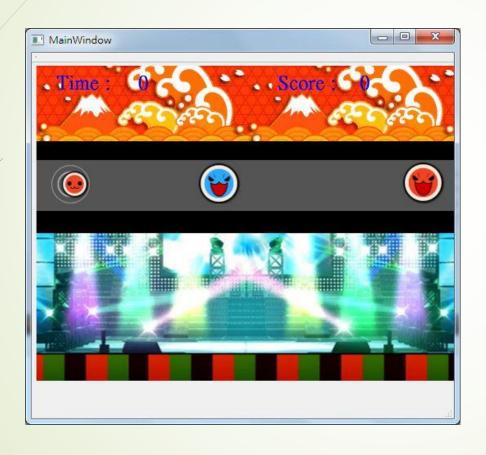
Using a button or a key to start the game



Control with two button

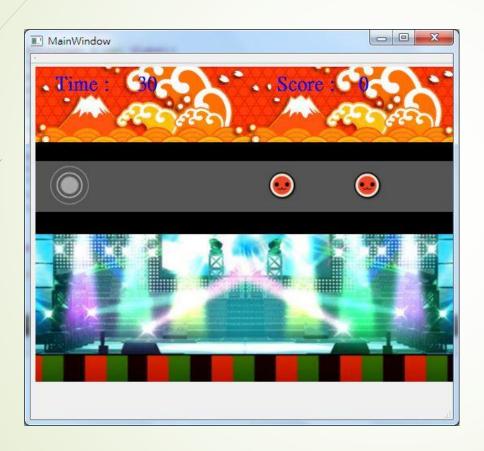
One to eliminate red drums

Another to eliminate blue drums

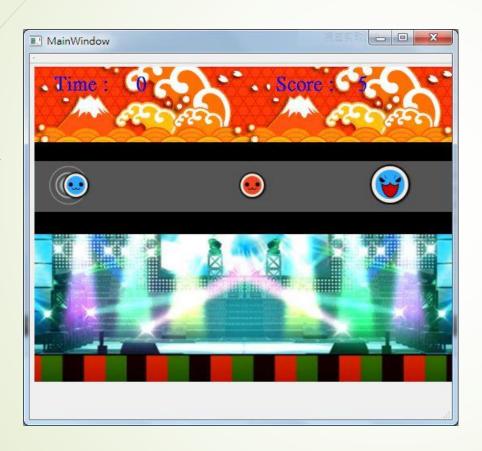


When the drum moving into the target region

Press the button to eliminate the drum and get score



Setting a 30 seconds countdown timer



When time's up, stopping the game



Finally! Show a result

Evaluation

- You should upload source code to your github repository "pd2-Taiko" before 2016/05/15 23:59.
- Basic architecture:
 - Playable (with GUI)20%
 - Drums should be randomly generated (at least two kind of drums)
- Additional requirements:
 - Countdown timer and score
 - Able to restart the game without restarting the process
- Report: 10%
 - UML class diagram, screen shot, how to play, program architecture, ...
- Demo: 5/16~5/20 (will need to modify your code)
- Bonus: up to 20%
 - Use all of your imagination and creativity

QT小簡介

Qt creator

http://www.qt.io/download-open-source/

Windows Host

- > Qt 5.6.0 for Windows 64-bit (VS 2015, 836 MB) (info)
- > Qt 5.6.0 for Windows 32-bit (VS 2015, 840 MB) (info)
- > Qt 5.6.0 for Windows 64-bit (VS 2013, 836 MB) (info)
- > Qt 5.6.0 for Windows 32-bit (VS 2013, 840 MB) (info)
- > Qt 5.6.0 for Windows 32-bit (MinGW 4.9.2, 1.0 GB) (info)
- > Qt 5.6.0 for Android (Windows 32-bit, 1.1 GB) (info)
- > Qt 5.6.0 for Windows RT 32-bit (VS 2013, 1.0 GB) (info)
- > Qt 5.6.0 for Windows RT 32-bit (VS 2015, 1.0 GB) (info)

Qt creator

http://www.qt.io/download-open-source/

Offline Installers

Qt offline installer is a stand-alone binary package including Qt libraries and Qt Creator.

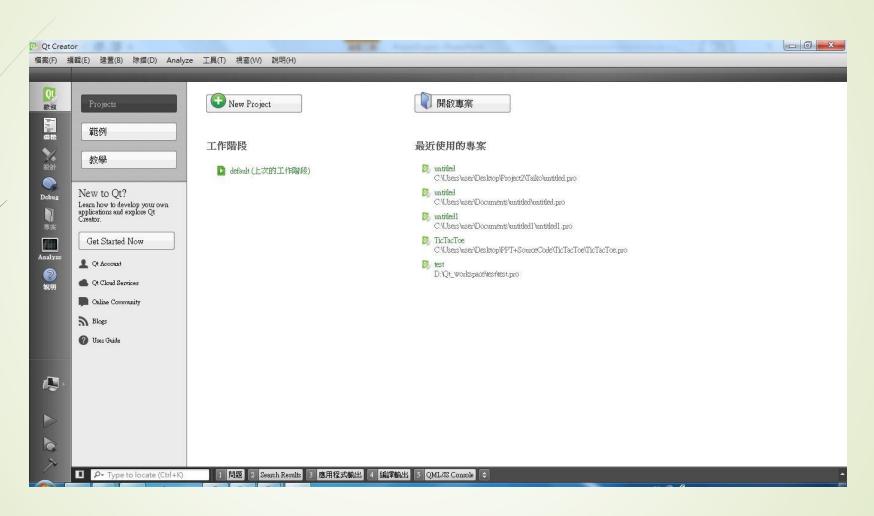
Linux Host

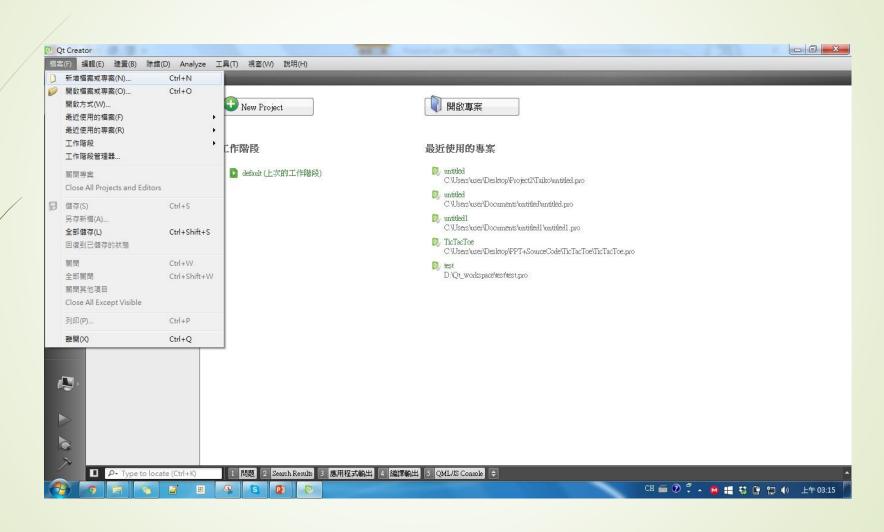
> Qt 5.6.0 for Linux 64-bit (661 MB) (info)

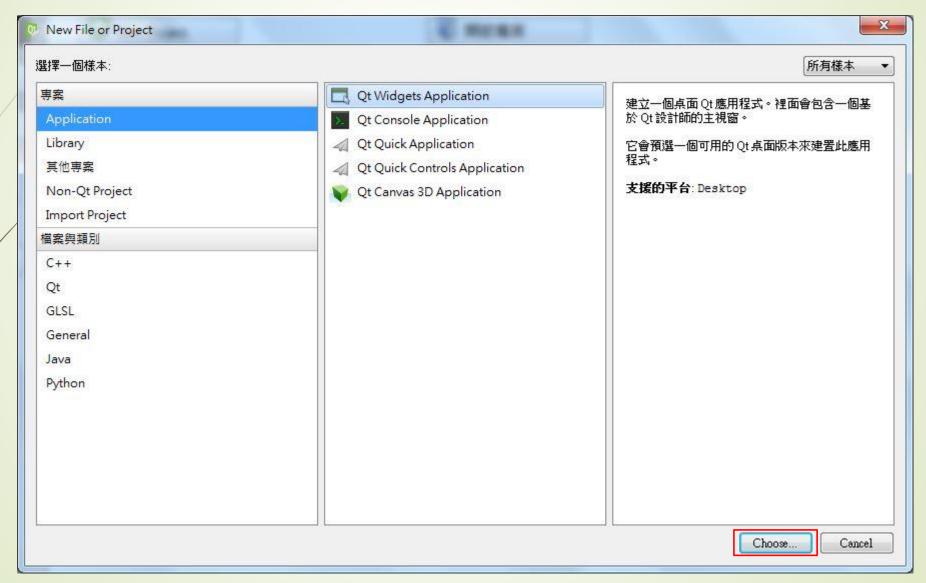
> Qt 5.6.0 for Android (Linux 64-bit, 717 MB) (info)

OS X Host

- > Qt 5.6.0 for OS X (710 MB) (info)
- > Qt 5.6.0 for Android (OS X, 761 MB) (info)
- > Qt 5.6.0 for Android and iOS (OS X, 2.1 GB) (info)

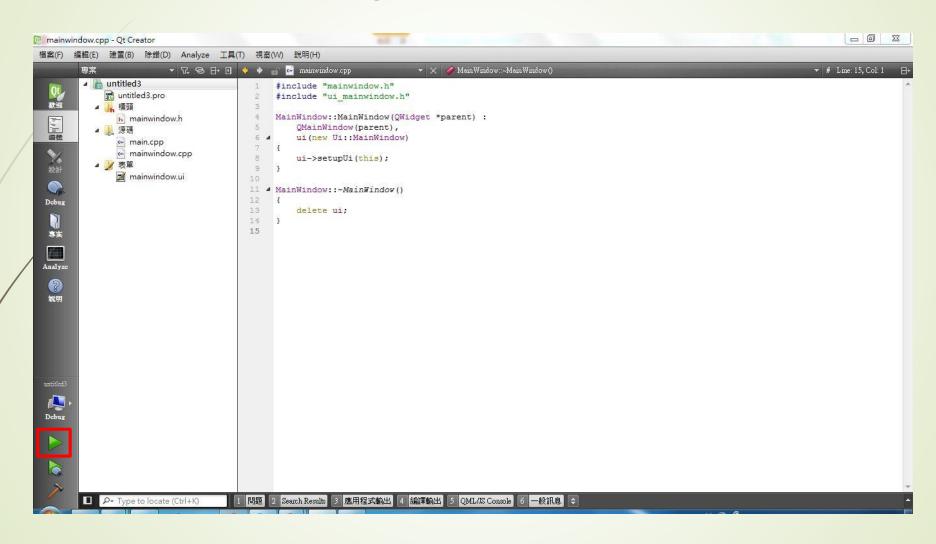


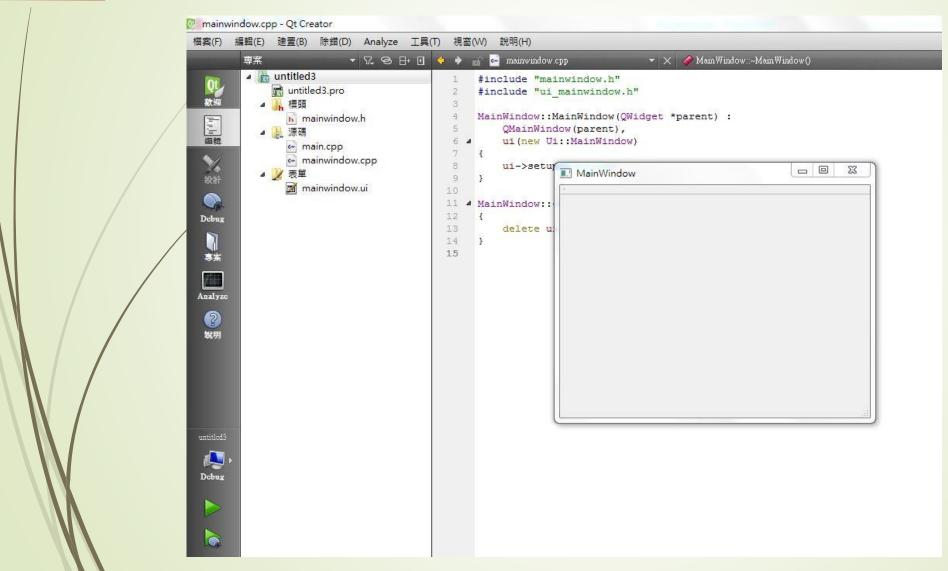




▶ 決定放哪裡,還有class name...等等

▶ 下一步 ->下一步 -> 下一步 ...





媽~我會寫視窗程式了!!!

但是作業該如何下手呢?

Google就對了!

我想要放圖片怎麼辦?

- Google qt load image
 - https://www.youtube.com/watch?v=VKt8HMMQZIs



我想要控制按鍵怎麼辦?

- Google qt key press
 - https://www.youtube.com/watch?v=tkEmnijSOJU



我想要設置button怎麼辦?

- Google apushbutton
 - https://www.youtube.com/watch?v=dOovH6TvaY4

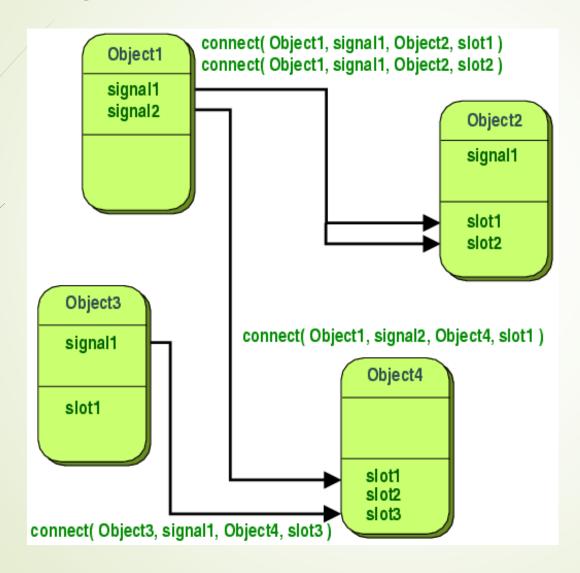


我想要計時怎麼辦?

- Google qtimer
 - https://www.youtube.com/watch?v=pHc7siV2Ads



Signal & Slot



Signal & Slot

```
#include <QApplication>
#include <QPushButton>
#include <QFont>
int main(int argc, char *argv[]) {
QApplication app(argc, argv);
QPushButton *btn = new QPushButton("Close");
btn->setWindowTitle("Signal & Slot");
btn->setFont(QFont("Courier", 18, QFont::Bold));
btn->resize(250, 50);
QObject::connect(btn, SIGNAL(clicked()), &app,
SLOT(quit()));
btn->show();
return app.exec();
```



Reference

- QT examples Mohammad Shaker
 - https://www.youtube.com/user/Mohammad10393/videos?shelf_id=0&view=0&s ort=dd
- Google
 - https://www.google.com.tw/

