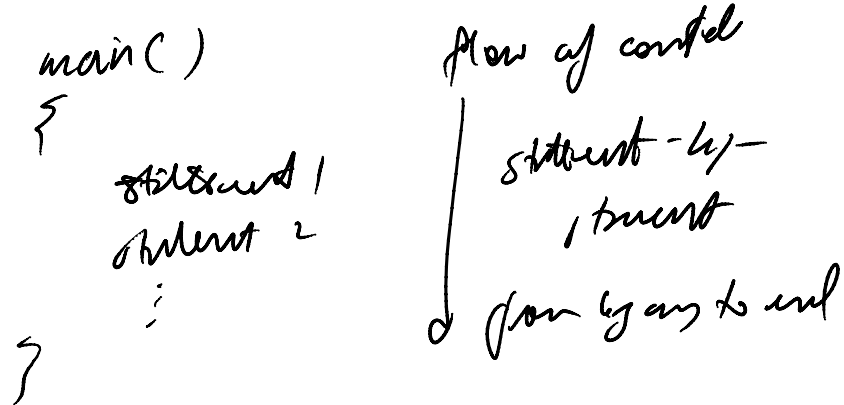
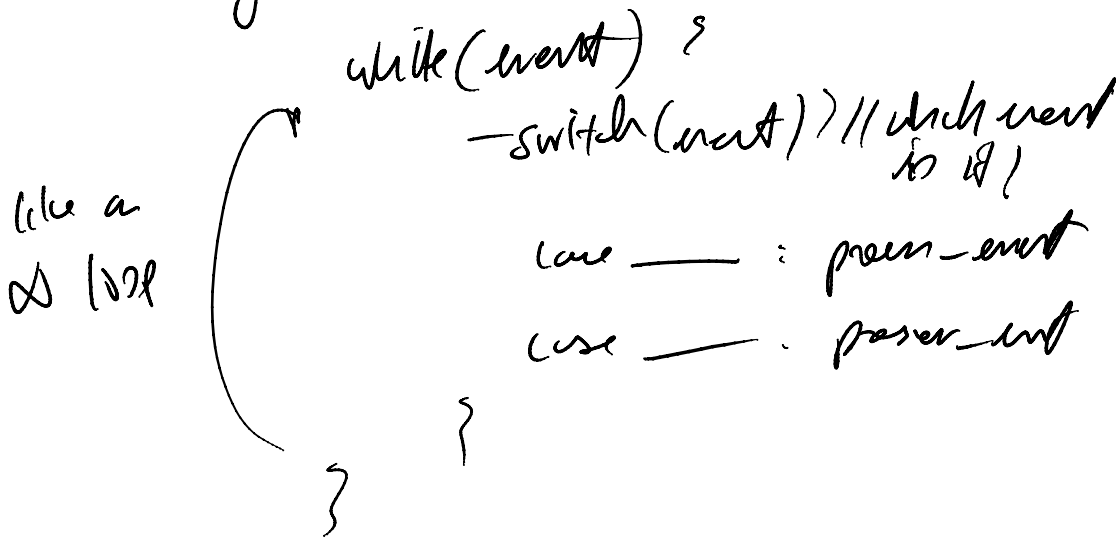


- Qt:
 - event-driven "paradigm"
 - for comparison, even typical programs in C++ are "procedural":



- event-driven, instead is conceptually like a giant while loop:



- event wrappers
 - button press (mouse)
 - keyboard key press, releases
 - menu item selected
- ↳ UI (user interaction)

- major difference between procedural programs is that there is loop exist, "do-while", not in your code, but in toolkit, such as Qt (GTK, FLTK, etc)

- your code gives up flow of control to toolkit

eg. in Qt `gapp → exec(); // run`

↓
Qt starts event loop
your code set idle, awaiting events

when an event comes along, your event handler is called (one of many that you provide)

- in my Qt example;

my-feature/

Makefile (top-level Makefile)

src/ - when you 'make' (usually just 'make' once),

it goes into src/ & runs gmake on the .pro file that's there. gmake builds a Makefile in src/

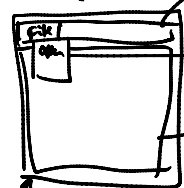
in my-feature/src/:

feature.pro C++ file for gmake that builds & installs

glwidget.cpp

glwidget.h

builds the widget (widget)



mainwindow

mainwindow

glwidget uses widget that "accepts" OpenGL commands (our drawing window)

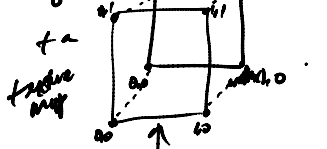
glview

init OpenGL:

- sets up GL state
- window size
- projection

PaintGL:

- drawing widget handles
- all the data is done & glReadPixels()



+ a texture map

texture (img (pixel) data) (e.g. img.png)

keep a texture id to access.

texture

width, height, glReadPixels, read, write

only view

Handwritten mark

Qt wants \equiv signals

event handlers \equiv callbacks \equiv slots