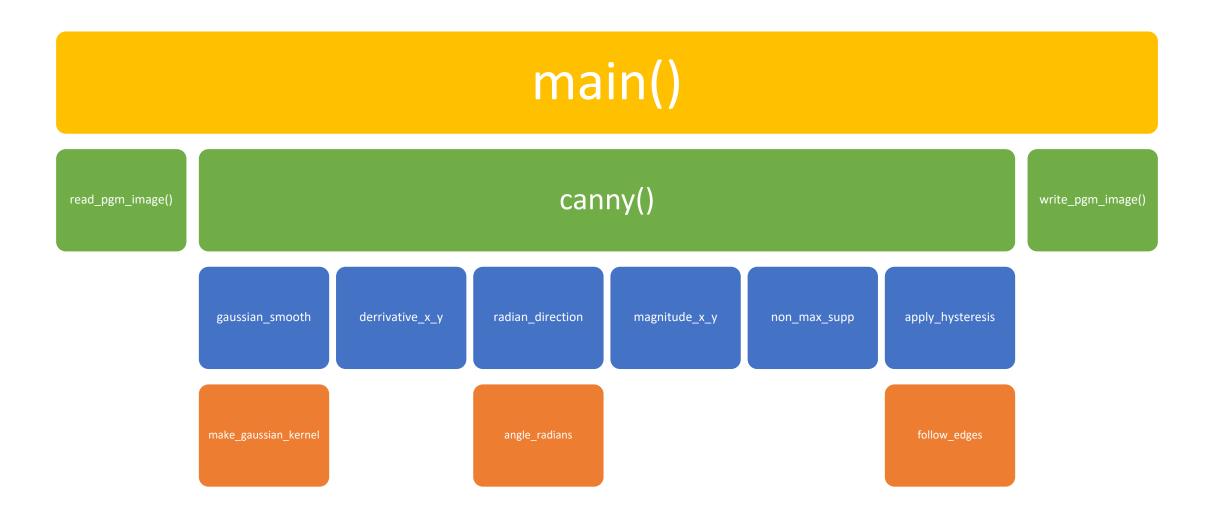
ECPS 203 Discussion

TA: Zhongqi Cheng

Agenda

- 1. Review of Assignment 1
- 2. Assignment 2

Function call hierarchy



Reference code for assignment 1

- can be found in ~ecps203/public/canny.c
- use this code as the foundation of assignment 2

Reminders

- Name your homework directory in lower-cased fashion
 - .../hw/hw1
 - otherwise the submission script cant find your homework
- Run your code on the server, not your local machine



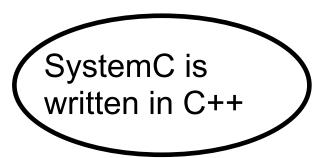
Assignment 2

due: Wednesday 6:00 p.m. next week

Assignment 2

Tasks:

- 1. Rewrite C code into C++
- 2. Clean up codes
- 3. Hardcode parameters
- 4. Remove dynamic memory allocation



C and C++

- C function definition can have no return type
- C++ function definition must have return type

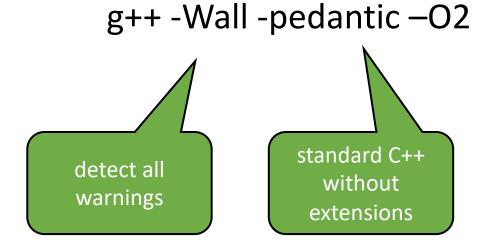
```
c style print("hello world\n");

void foo(){

c++ style print("hello world\n");
}
```

Clean Up Code

Compile with



Hardcode parameters

• In assignment 1, certain parameters are adjustable and passed as arguments to function calls

```
>canny (image, rows, cols, ...)
```

- Now, hardcode them in all functions
 - 1. rows = 240
 - 2. cols = 320
 - 3. ...

Remove dynamic memory allocations

- In assignment 1, we use calloc(rows*cols, ...)
- Now, since all the parameters are hardcoded, we can statically create arrays of size = 240*320

Submission

- run the script in your command line: ~ecps203/bin/turnin.sh
 - 1. canny.cpp: source code
 - 2. canny.txt: describe your efforts or troubles