

COS426 Computer Graphics

Precept 0

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Plan for today

- ⦿ Administrative stuff
- ⦿ Development (IDE, C/C++ stuff)
- ⦿ Assignment 0

Administrative

I'm Aleksey.

There is also Vladimir (Vova) - He uses Mac

My office hours:
418a, Thursday 7pm

Mailing list / [PIAZZZZZA](#)

Precepts

Currently:

- ◉ Fridays, 11am, CS105
- ◉ Fridays, 3pm, CS105

Changes are possible and even probable!

Content:

- ◉ Supplement to lectures
- ◉ Concern assignments and related technicalities

Development

Read the COMPILER.txt

◉ Windows

- VS 2010 – assignments have .sln files

◉ Linux & cygwin

- Install necessary packages
 - How?
 - For cygwin – run setup.exe and look for the packages you need
 - Other: <http://laptoplogic.com/resources/a-beginners-guide-on-how-to-install-linux-software>

◉ Macs

- Install XCode IDE

Assignment 0

- R2Image
- R2Pixel
- impro
- Run
- Writeup
- Submission

R2Image

- ◉ Access a pixel:
 - Pixel(int x, int y)
- ◉ Set a pixel:
 - SetPixel(int x, int y, const R2Pixel& pixel)

Tip: Check the .h file before you want to implement any functionality – much of it is already there!

R2Pixel

R2Pixel pixel:

- Four Channels (R,G,B, Alpha)

- Component access

- `x = pixel.Red()` \Leftrightarrow `x = pixel[0]` \Leftrightarrow `x = pixel.Component(0)`

- Set components

- `pixel.SetGreen(0.5)` \Leftrightarrow `pixel[1] = 0.5`

- `pixel.Clamp()`

Tip: Check the .h file before you want to implement any functionality – much of it is already there!

HTML for the write-ups

- ◉ Layout
- ◉ Tags
- ◉ More elaborate tutorial
 - <http://www.amittai.com/prose/tutorial.html>

Assignment 0

⦿ Show

- Impro
- Running
 - Cygwin/Linux/Mac
 - VS command prompt
- Writeup

⦿ Submission

- Preserve directory tree
- ZIP files
- Naming zip file: johndoe_cos426_assignment0.zip
- Submit via Dropbox