

Welcome to CS116x

CS 116 LEC 002
Global Business and Digital Arts (GBDA) only

Audience

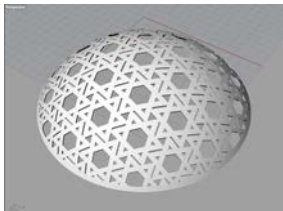
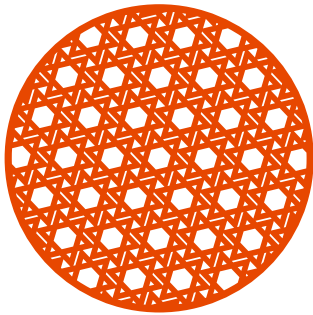
This course is a continuation of the Fall 2014 offering of CS115x. If you didn't take that course, don't take this one.

Course staff



Instructor: Craig S. Kaplan
Email: csk@uwaterloo.ca
Office hours: Wednesdays 11-12, DC 2110





Course staff



Instructional Assistant: Alyssa Jamal
Email: amjamal@uwaterloo.ca
Office hours: Mondays, 1-2:30, MC 4065



Instructional Assistant: Chrissy Schreiner
Email: icschrei@uwaterloo.ca



Instructional Assistant: Aaron Voelker
Email: arvoelke@uwaterloo.ca

Course staff



Coordinator: Ahmed HajYasien
Email: ahajyasien@uwaterloo.ca

Teaching assistants

Undergraduate advisors

Organization

Lectures: MW 2:30pm-3:50pm, MC 4059
Labs: F 2:30pm-3:50pm, MC 3003 & MC 3027

Roughly ten assignments, due Tuesdays at noon

Midterm: Thursday, 5 March, 7:00pm-8:50pm, MC 4045, MC 4061

Final exam: TBA

Marking

Participation	5%
Labs	5%
Assignments	30%
Midterm	20%
Final	40%

You must pass the weighted sum of the exams:

```
if( 0.33*M + 0.67*F < 50 ) { fail(); }
```

Assignments

No Late Submissions!

Submitted online using LEARN

All work done individually (labs and assignments)

Resources

Course web page

www.student.cs.uwaterloo.ca/~cs116/x/

LEARN

learn.uwaterloo.ca/

Piazza

piazza.com/class#winter2015/cs116x

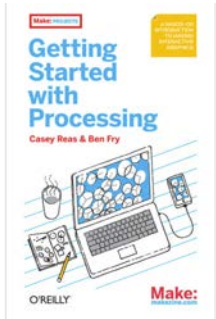
Processing

processing.org

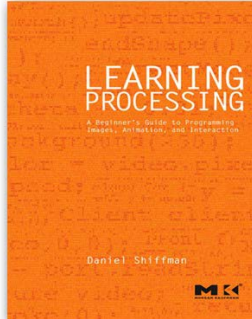


NO CHEATING!

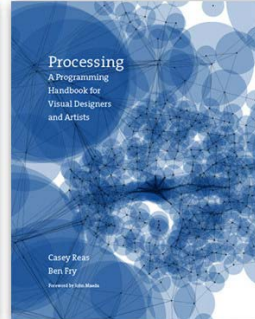
Books



Reas and Fry

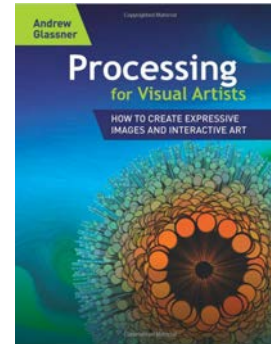


Shiffman



Reas and Fry

Books



Glassner



The Imaginary Institute

imaginary-institute.com

Technology in class



← **Bad idea** **Good idea** →



Philosophy

You don't have to become a computer scientist.

But some art and design problems are best solved using code.

Code is an infinitely flexible medium.

Philosophy

Learn how programs work and how developers think.

xkcd.com/1425



Content

Assume you understand the basics of programming.

How can we make programming more useful?
How can we solve more problems?

Make use of more built-in functions and add-on libraries.

Content

1. Input/Output
2. User interfaces
3. Physics and animation
4. Geometric context
5. Procedural content
6. Advanced programming
7. Image processing
8. Text processing
9. Structured data processing