COMP 110/L Lecture 1

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Slides adapted from Dr. Kyle Dewey

About Me

- I research big data workflows
- This is my second semester at CSUN
- Third/fourth time teaching this content

About this Class

- See something wrong? Want something improved? Email me about it! (mahdi.ebrahimi@csun.edu)

- I generally operate based on feedback

Bad Feedback

- This guy sucks.

- This class is boring.

- This material is useless.

Good Feedback

- This guy sucks, *I can't read his writing.*

- This class is boring, *it's way too slow.*

- This material is useless, *I don't see how it relates to anything in reality.*

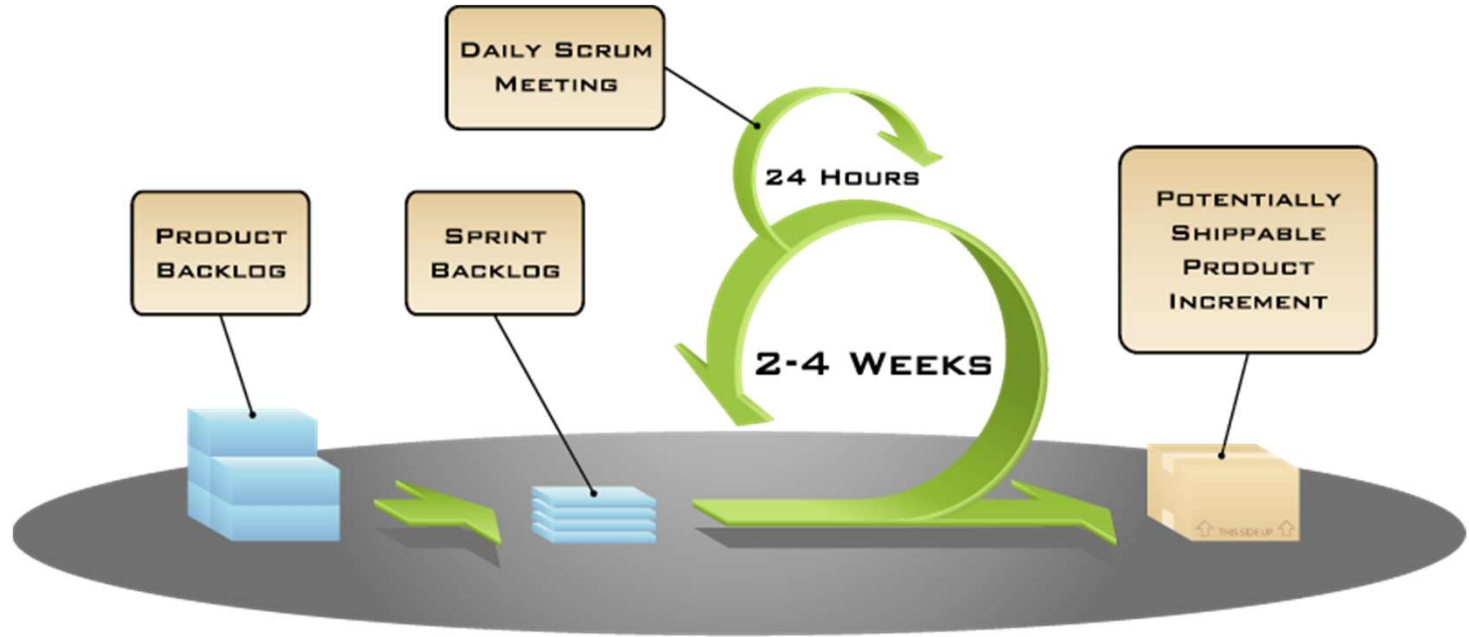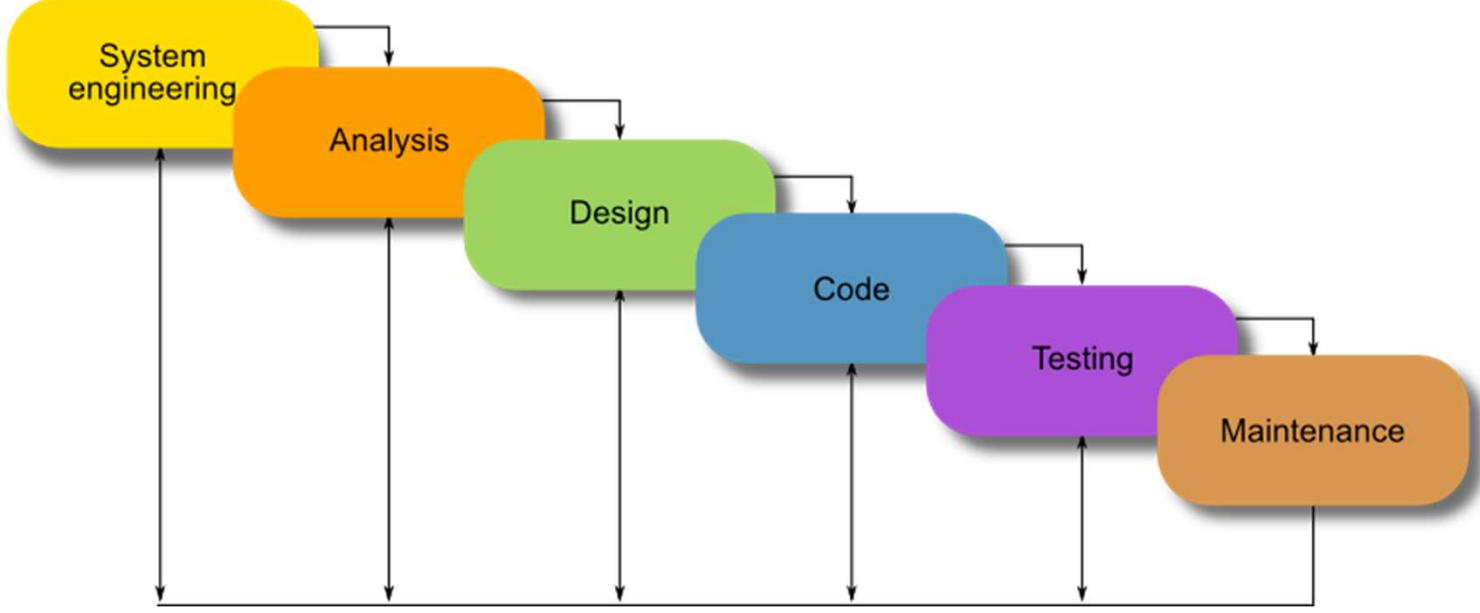- I can't fix anything if I don't know what's wrong

Questions

- CS Major/Non-major?

- Programming experience?

- Not first semester?

Why develop software?

What is software development?

What **isn't** software development?

https://www.youtube.com/watch?v=dXDrvAxZDDc

System engineering

Analysis

Design

Code

Testing

Maintenance

DAILY SCRUM MEETING

24 HOURS

2-4 WEEKS

PRODUCT BACKLOG

SPRINT BACKLOG

POTENTIALLY SHIPPABLE PRODUCT INCREMENT

THIS SIDE UP

What is programming?

Exercise: Make a Sandwich

Writing Correct Instructions is Hard

- Computer requires unambiguous direction
    - Humans can "figure it out"
- Many commonly-used operations
- IKEA instructions vs. computer instructions

Testing is **Big**

- Chrome: 39% of code is tests (589 thousand lines of testing code)

- Firefox: 53% of code is tests (321 thousand lines of testing code)

Testing and Debugging: Why was I late for class?

Programming is a Skill

- Years of practice needed

- You won't be able to write Facebook when you're done with the class

- This class gives a basic foundation to build on

Syllabus