

COMP 110/L Lecture 1

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Slides adapted from Dr. Kyle Dewey

About Me

- I research big data management and processing
- This is my second year 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

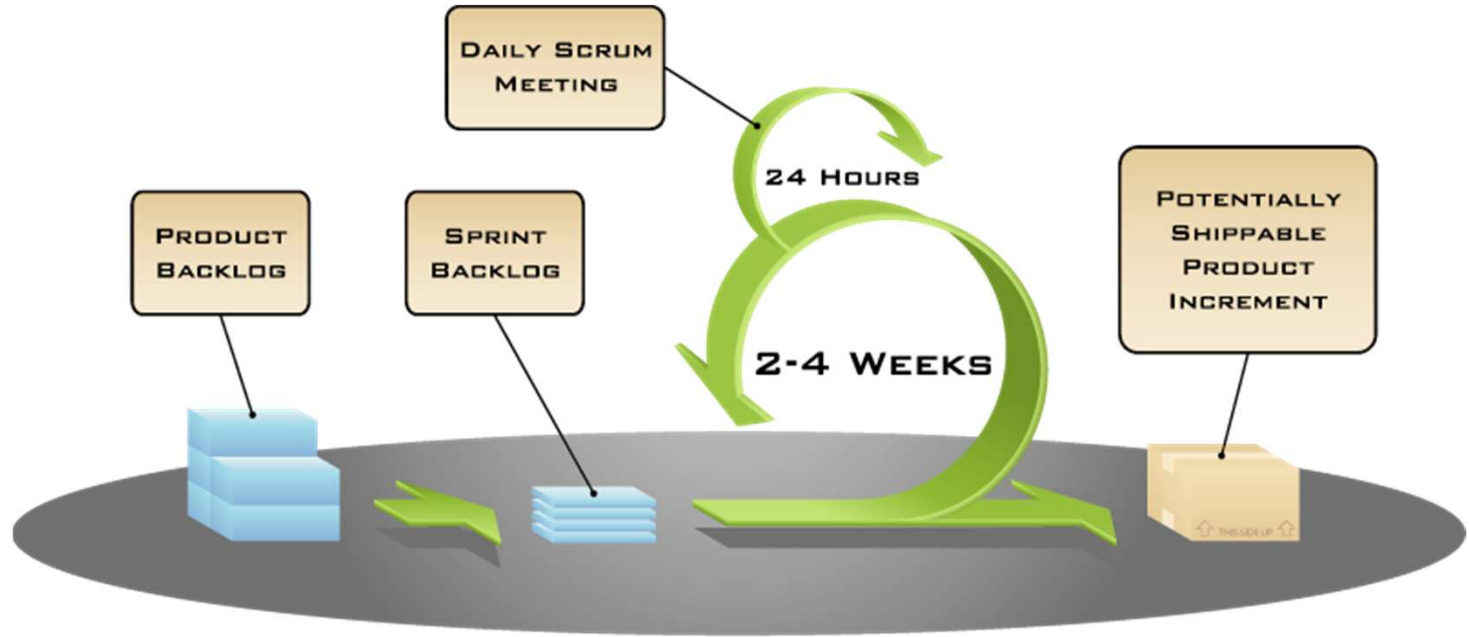
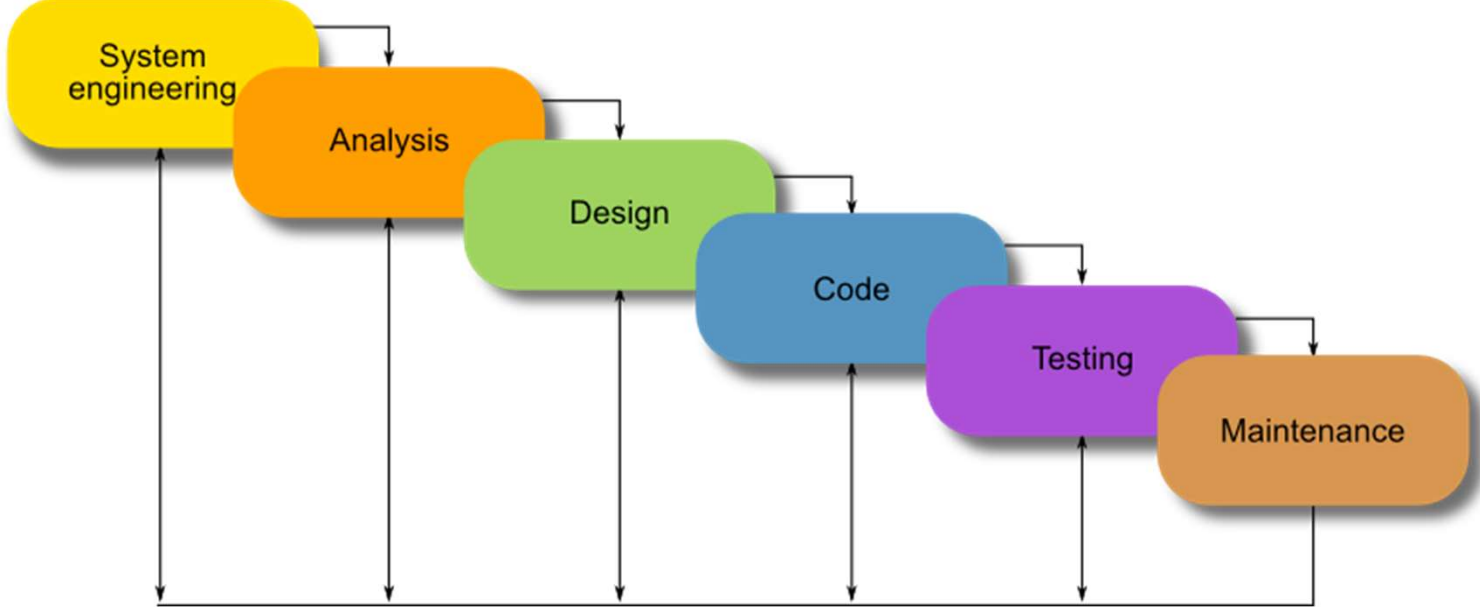
- CS Major/Non-major?
- Programming experience?
- Not first semester?

Why develop software?

**What is software
development?**

What isn't software development?

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



What is programming?

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