

COMP 110/L Lecture 1

Kyle Dewey

About Me

- I research automated testing techniques and their intersection with CS education
- This is my first semester at CSUN
- Second/third time teaching this content

About this Class

- See something wrong? Want something improved? Email me about it!
(kyle.dewey@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

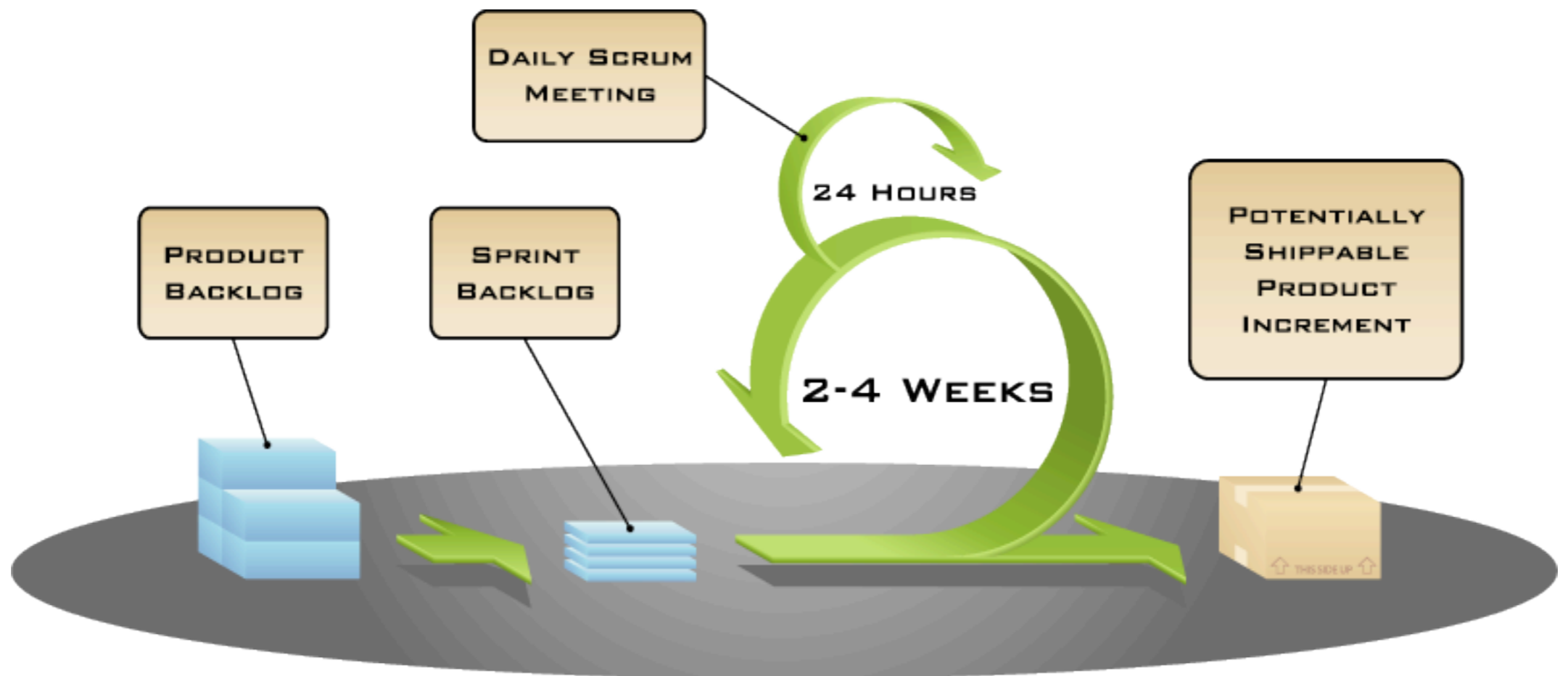
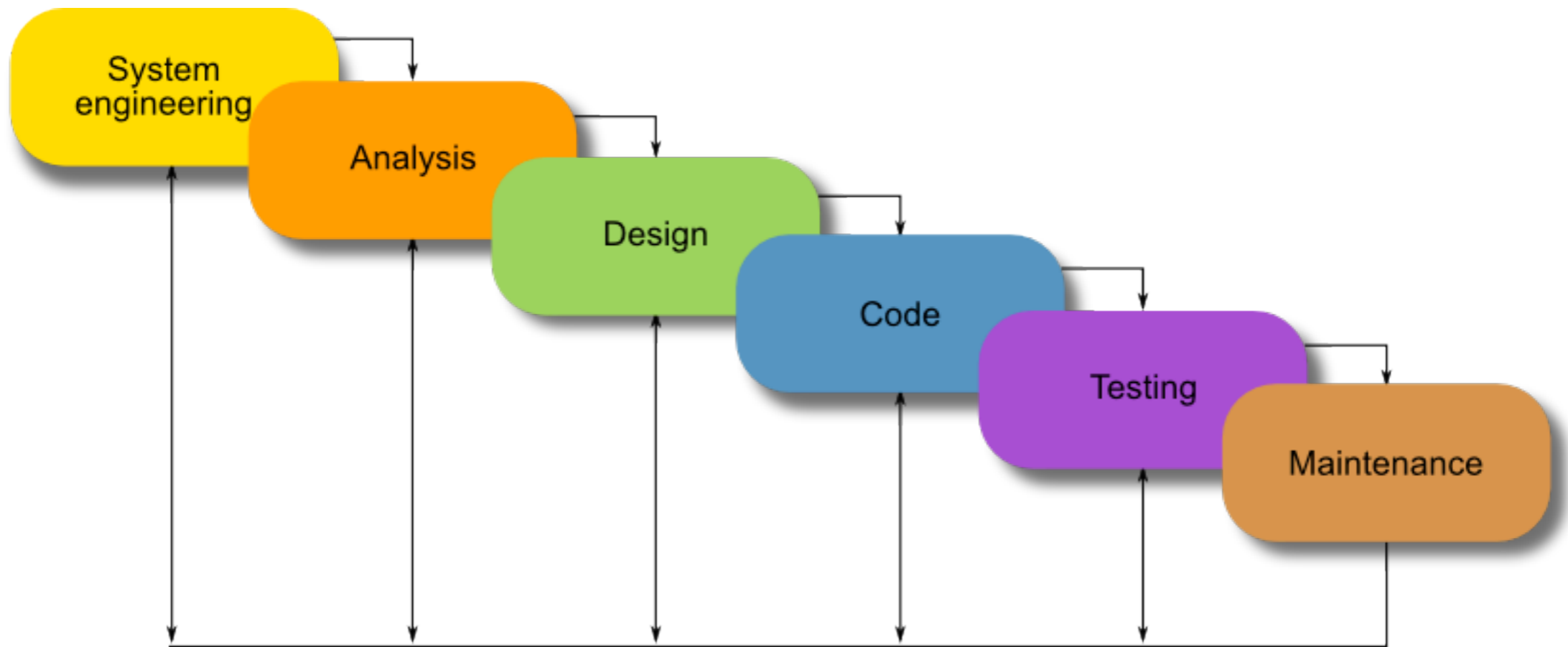
- CS Major/Non-major?
- Programming experience?
- Not first semester?

Why develop software?

**What is software
development?**

What **isn't** software development?

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



What is programming?

**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

If Time: Introduction to Running Java Code

Java Coding Process

Text
Editor

Text
Editor

emacs, vi, pico, nano...



Text
Editor

emacs, vi, pico, nano...



Microsoft Word, Google Docs

Text Editor

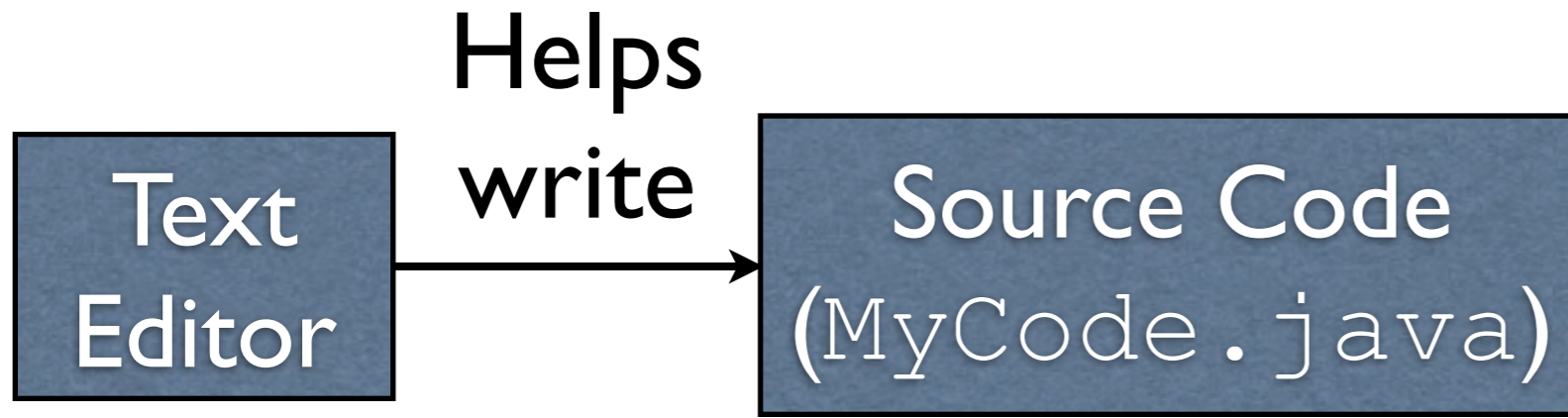
emacs, vi, pico, nano...



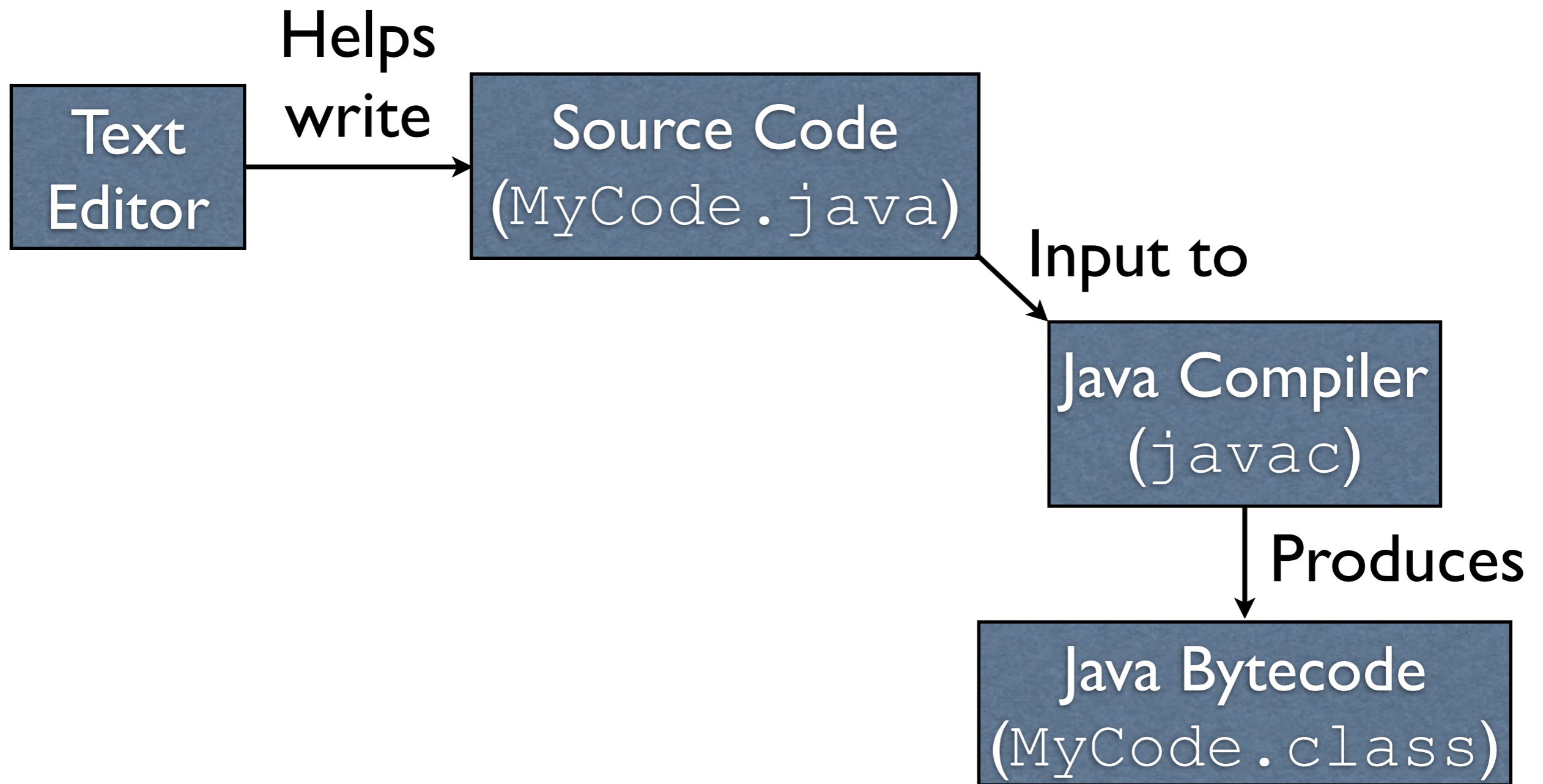
~~Microsoft Word, Google Docs~~

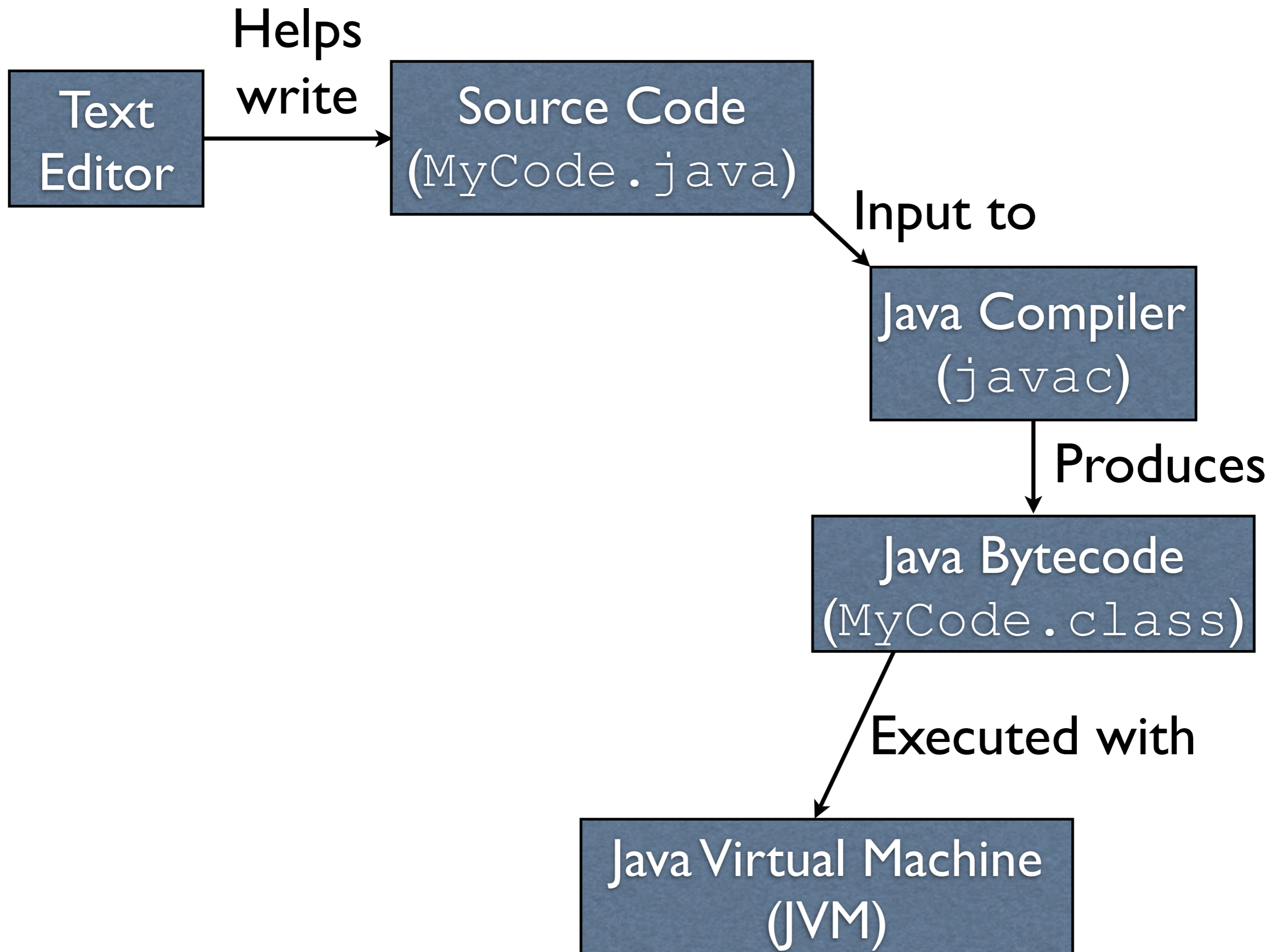
Wanted: plain text without formatting

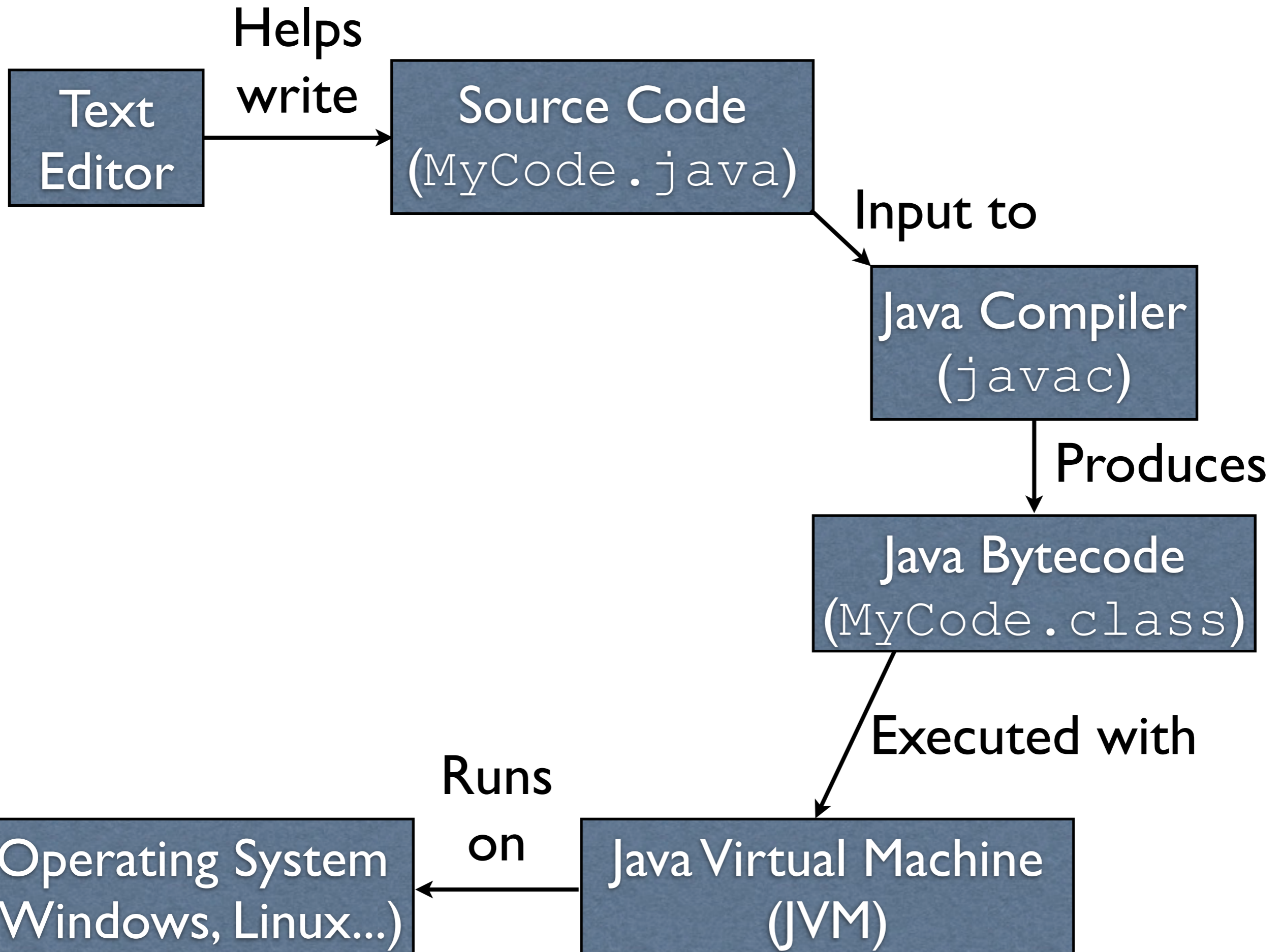
Also nice: syntax highlighting











Example:

HelloWorld.java