Topics for today

- Compsci is different
- Problem solving practice and the real world
  - limited resources and information
  - proper coding style
- A casual programming endeavor
Real world (IRL) programming

• Limited starting information
• Less thorough, if any, test cases provided
• Communicating your ideas to others is key
Let’s do a problem

- `makeChange`
- What is a clean, efficient solution?
Let's do a problem

- textRoll
- Think about edge cases
- What is good code style?
The real world...? Pt 2

• Not in class!
• Not in the Link!
• You’ve got an idea, or you’ve found a problem you want to solve…
  • Where to start?
  • HOW to start?
Jumble #1

Unscramble these four Jumbles, one letter to each square, to form four ordinary words.

BANIC
Jumble #2
Jumble #3

Unscramble these four Jumbles, one letter to each square, to form four ordinary words.

BANIC

OGAME

TANEDT
Jumble #4

Unscramble these four Jumbles, one letter to each square, to form four ordinary words.

BANIC

OGAME

TANEDT

TADRSN
Head to Eclipse
How to solve everyday problems, and the key to getting better...

• Think programmatically about the world around you
  • What tasks do you encounter that can be sped up by an algorithm?
• Do not get frustrated or discouraged when starting a project
  • Roadblocks WILL happen, step back, reevaluate, then try again
Summary

• Compsci is not like other subjects
  • Practice the new skills you have learned
• You encounter problems and challenges all the time
  • Other subjects, Day-to-day stuff
  • How can programming help?
• Thoughtful coding is powerful coding.
  • Think about your approach and do not be afraid to ask for help.