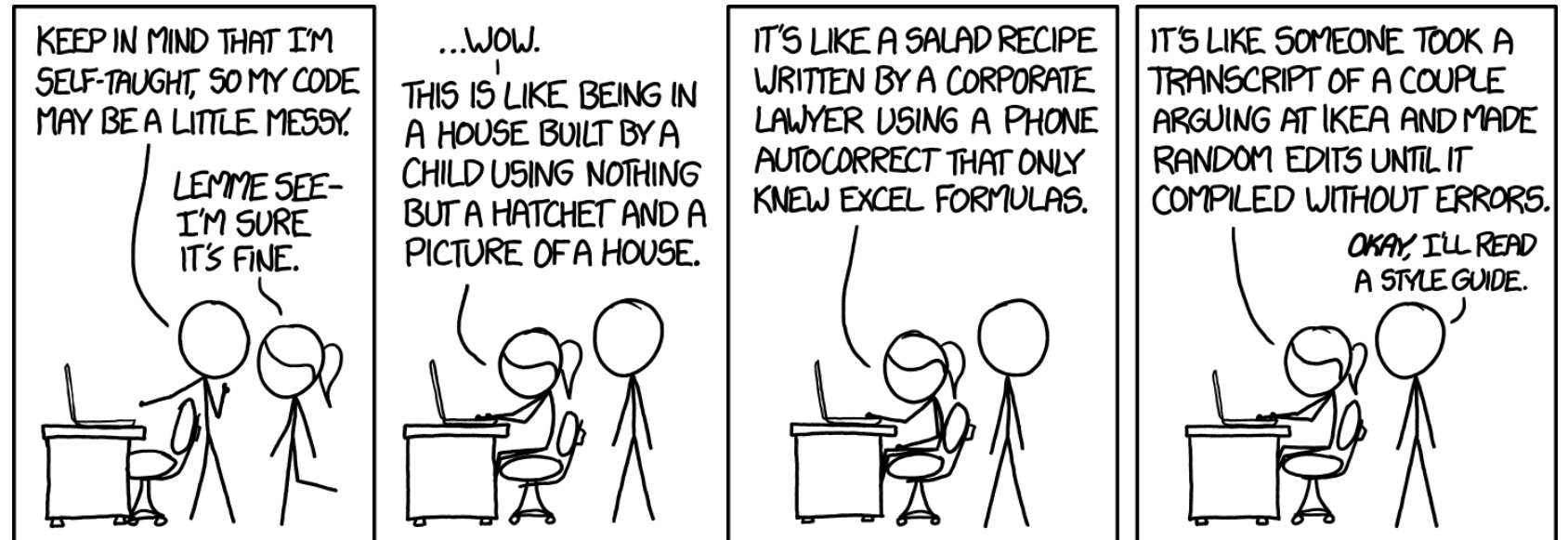


Code Review, Linting, and Style

Andrew Hu



Administrivia

- Attendance is still <http://tinyurl.com/uwigem/18sp/attendance>
- Pacman Project is still due this Thursday
 - Please show a good faith effort to get a minimum viable product
 - If good progress is made, I may extend the deadline to get further

Code Review

- One of the ways to dramatically reduce code errors
- Remove **33%** of errors!

Style Guide

- That thing that you shouldn't have lost so many points on in 142/3
- I lose style points all the time
- Is there a way we can make style formatting easier?

Style Checkers

- A script that verifies if your code meets the style guide
- Tells you what line the error is on, and what to fix

```
[andrewhu@attul hw3]$ cppl fileindexwriter.cc
fileindexwriter.cc:240:  Lines should be <= 80 characters long  [whitespace/line_length] [2]
fileindexwriter.cc:12:  hw3/fileindexwriter.cc should include its header file hw3/fileindexw
Done processing fileindexwriter.cc
Total errors found: 2
```

Style Reformatters

- Make the process even easier
- Get the style checker to change the style for you!
- Rewrites your code so you don't have to

Linting

- The process of removing common errors from your code
- Name originated from “removing lint” from sheep’s wool

Back to Humans!

- In the end, only a human* can really tell you if your code is good
- This should come after your code has been finished, and passes testing
 - Mostly just a sanity check
- Of course, you can always ask for help from others in debugging if it gets bad

The Summer

Real Talk Time

Our Project

- For complicated reasons, we may have to change our project
- We'll still have a lot of work to do...
 - But it depends on what you want to do

Possible Projects

- Microfluidics (whatever shape this takes on)
- Video game for outreach
- Chromastat overhaul
- DAWGMA Arduino project
- Actual CS-heavy research with the MISL or Sys Bio labs

Test

- Test

Hello, there!