- Codergirl – WebDev Unit
- Class 8 and 9
- April 21, 2021

Agenda

- Review
- Exercises
- Studio

Housekeeping

- Graded Assignment #2 -Scrabble Scorer
- DUE FRIDAY

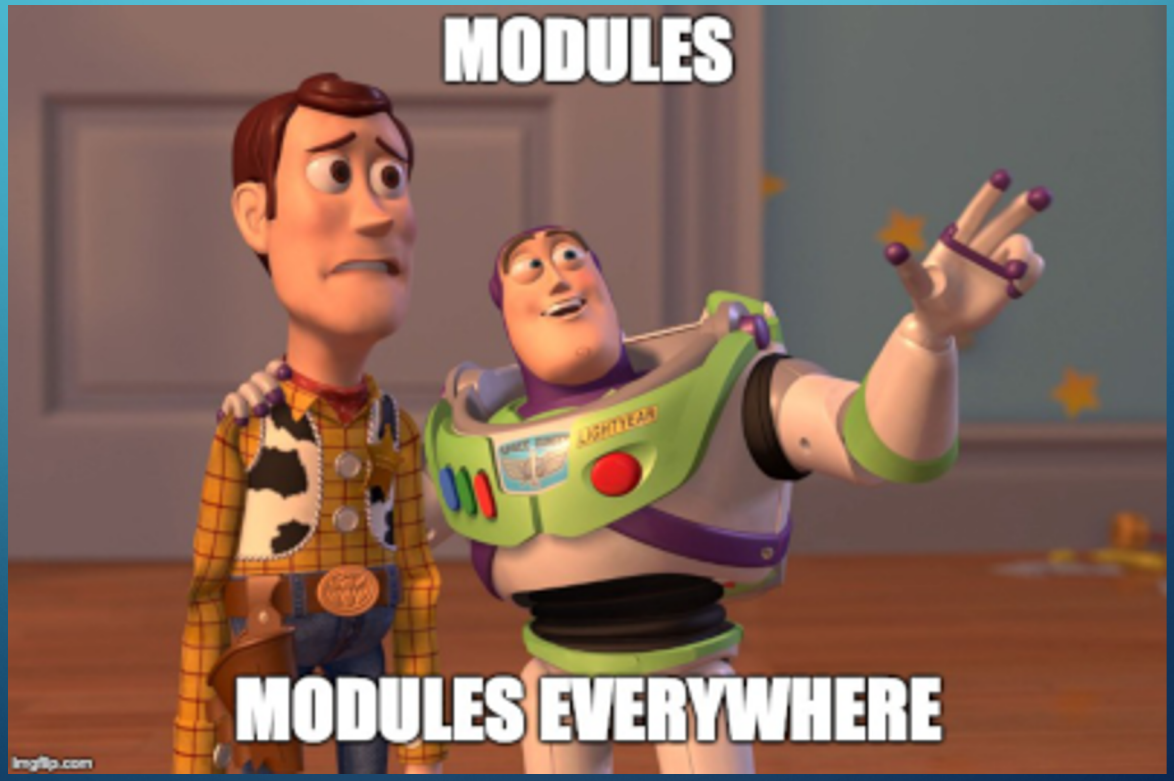
Review - Modules

- Allows us to separate our code into smaller chu

- Why bother?
- Keep our code organized
- Keep our code DRY
- Sharing is caring

Review – Modules

- Where do we keep them?
- Built into Node
- On the local machine
- External repository, like NPM



Review – Modules

- Local Modules
- Any module you create and export
- Import (aka 'require') via relative path
  - (./path-to-file.js) ← in folder and down
  - (../path-to-file.js) ← up one folder

- Node Package Manager (NPM)
- Most commonly use remote registry for JS
- Developed by other developers
- Tens of thousands of modules available

Review – Unit Testing

- Creating automated tests to verify our code doe
- Three common layers of automated testing:
- Unit Testing
- Testing a module in isolation
- Integration Testing
- Testing modules working together
- Functional Testing
- Testing large application functionality
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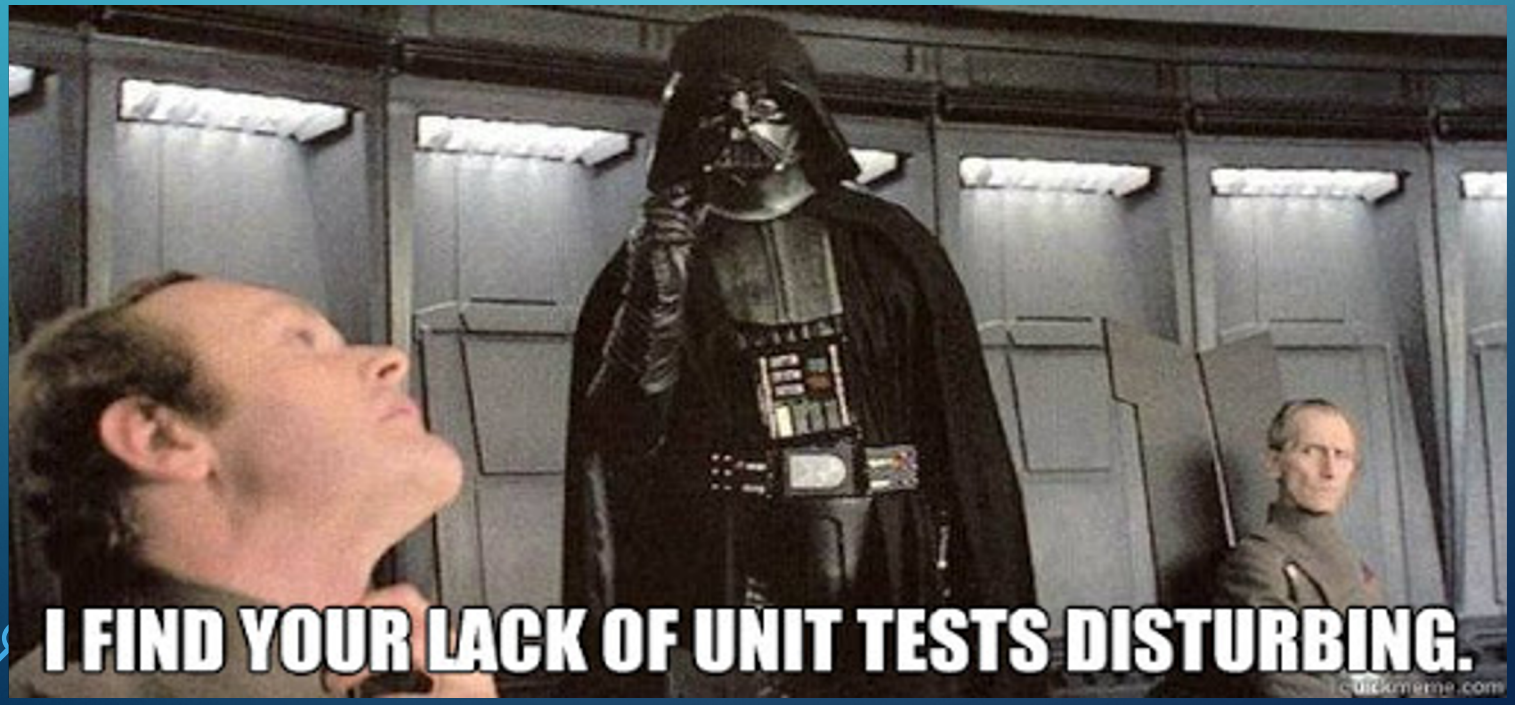
Review – Unit Testing

- Why bother?
- Make sure our code works
- Find regressions
- Documentation
- Improves code quality



Review – Unit Testing

- How should we test?
- Positive tests
- Look for the test giving correct outputs/returns f

- Negative tests
- When testing boolean returns, look for false out
- Also test for expected error handling if bad inpu
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Review – Unit Testing

- How should we test?
- Edge cases
- Test for 'unexpected' uses and inputs
- Great for debugging
- No need to go crazy thinking of these
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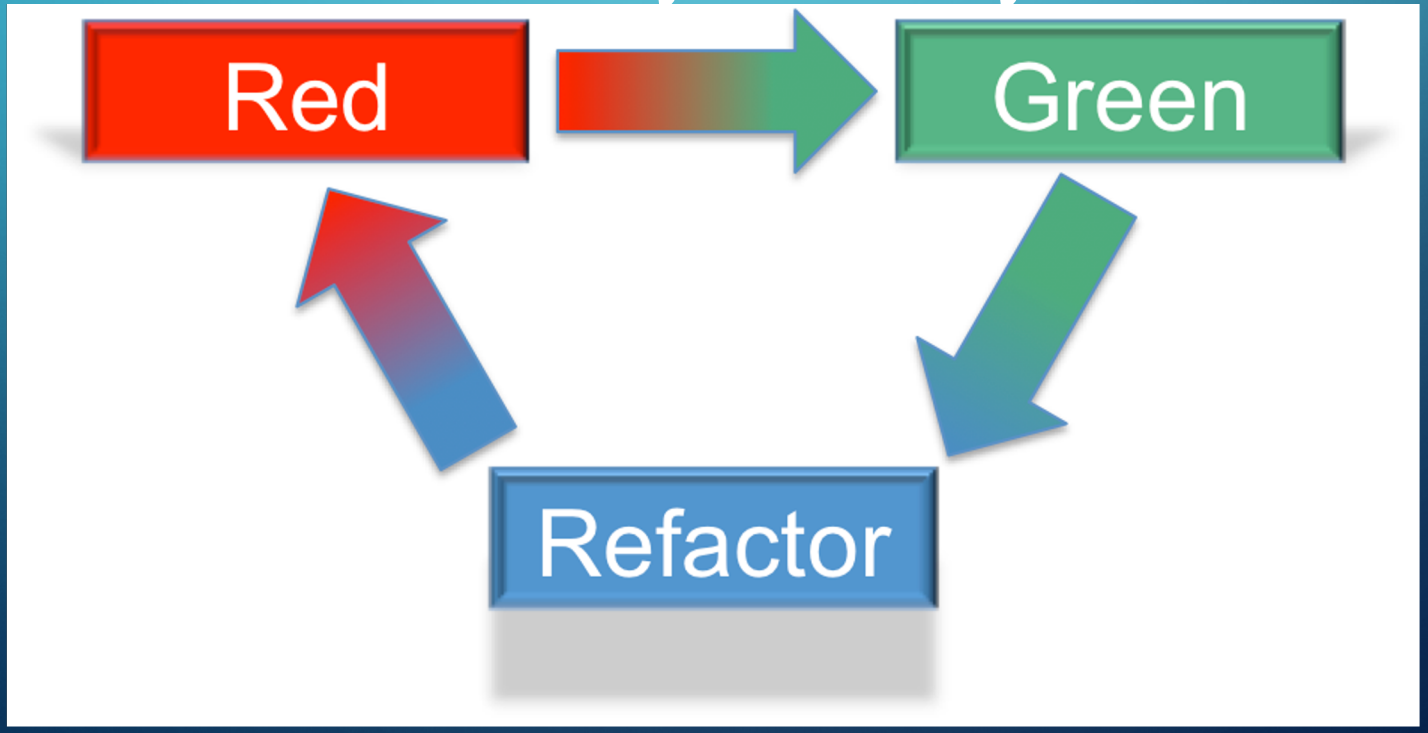
Review – Test Driven Development

- Create a test before implementing a feature
- Forces us to think deeper about how the feature will w
- Ensures every part of our code has testing associate
- Makes life easier for subsequent devs

Review – Red, Green, Refactor

- Red – Write a failing test
- Important to see test fail to ensure it works
- Green – Implement code to make test pass
- Don't focus on style- just make it work
- Refactor – Improve the code
- Can focus on better style and syntax



Review – Modules

Questions?

Live Coding

Graded Assignment #2

- Scrabble Scorer
- Take in a word, return how many points
- 4 parts
  - Create initial prompt
  - Transform the string
  - Create the scoring algorithm
  - Tie it together
- **Do each part in order**.
- Verify each piece works before moving on to the next part

Now

- Find your group Zoom
  - Studio
  - Graded Assignment
  - Prep for next week