Ruby

Week 7

Mid-Term Review

- Git issues: take some time to fix now.

- Questions??
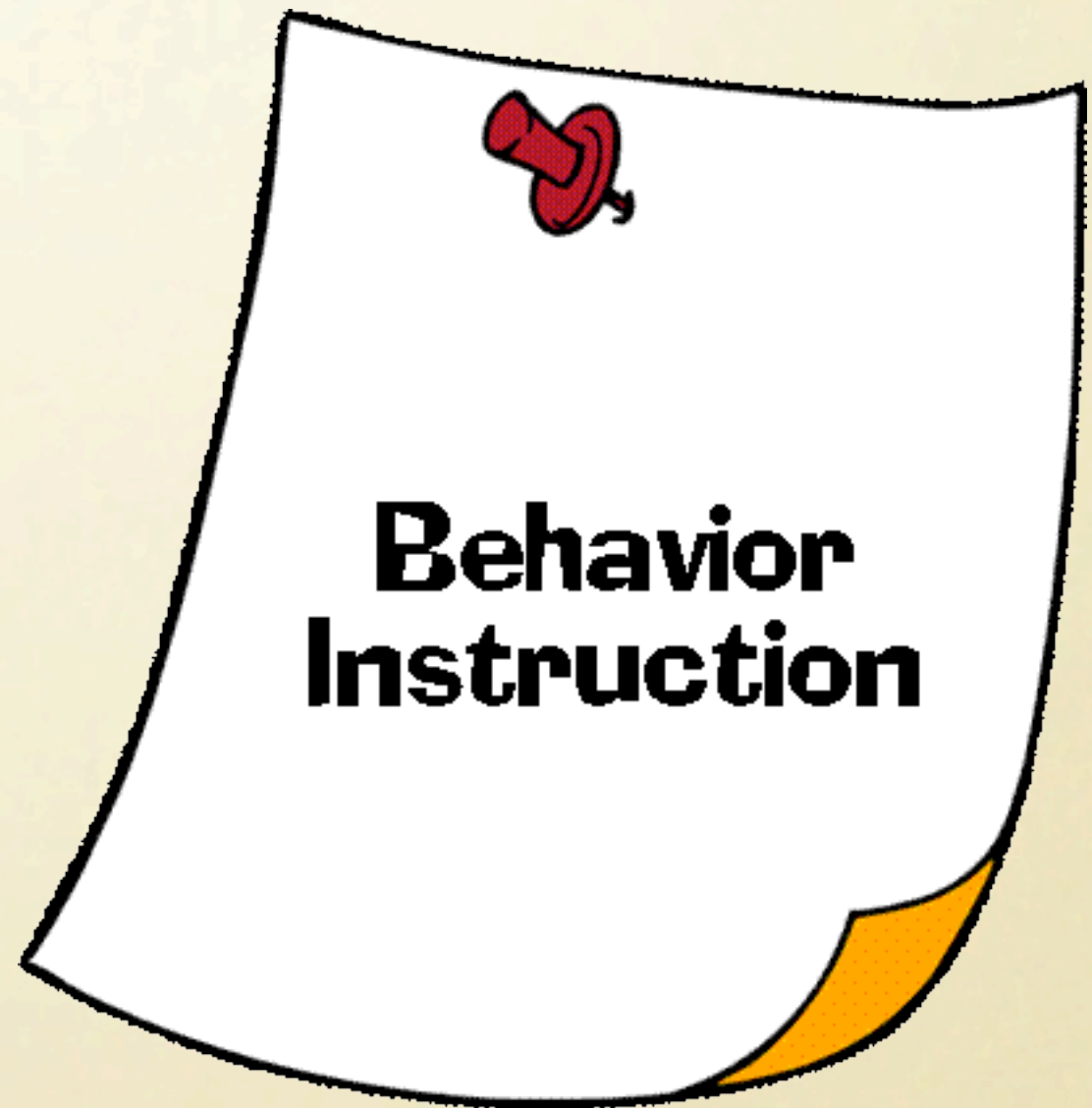
TESTING Agenda

- Behavior Driven Development with Cucumber

- Fun with MiniTest

- If times allows: TestUnit

TESTING
I FIND YOUR LACK OF TESTS DISTURBING.

Behavior Driven Development

- User Stories

- Business Value

- Communication

- Shared Tools

Behavior Specs

- Title

- Narrative

- Acceptance Criteria / Scenarios / Outcomes
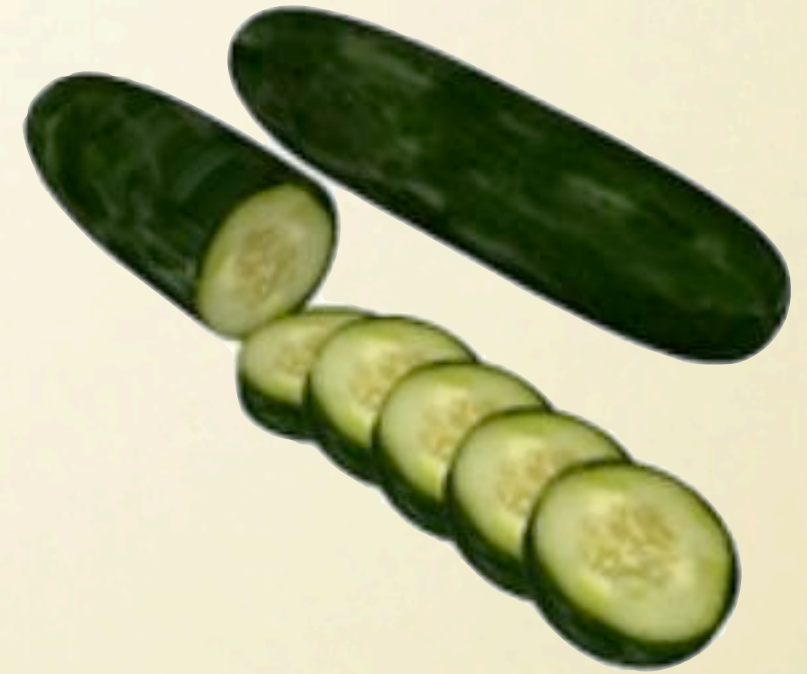
- gem install cucumber

- cucumber --help

Features

- Human Read/Writable description of behavior

- Business Users write the features, Programmers develop the features to spec

- https://github.com/cucumber/cucumber/wiki/Feature-Introduction

Given-When-Then

- Describing your feature

- Preconditions

- Something happens

- Expected outcome

Step Definitions

- REGEXP!!

- Translation between the human narrative and the code

- This type of sentence, matches to this type of code

Demo!

- I want a Celsius to Fahrenheit converter

- I tell my story

- I copy the generated regex

- I write my tests

- TDD!

Example!

- New Feature!

- I'm in London and I can't share bar stories without being able to convert Fahrenheit to Celsius

- Write the Steps

- Make Them Pass!

MiniTest

- Built into Ruby 1.9!

- SeattleRB!

- Light, Fast, FUN!

Example

- Make a ruby file

- Add some tests

- Make them pass

- All Ruby!

Test Unit

- Jeweler!

- Simple testing framework

- Used lots of places!

Cucumber with Jeweler and Travis

- EXAMPLE!

- Add cucumber to Gemfile

- Run bundler

- Add feature, steps, and support (env.rb)

- Add to travis.yml file

Homework

- Read Chapter 23 and 24 DuckTyping and MetaProgramming

- Make the cucumber features pass