

CIS 658  
WEB  
ARCHITECTURES  
Winter 2020

# ROOM AND CONTACT INFO

- **Room:** KEN 350
- **Prerequisites:** CIS 500 and CIS 501
- **Office Hours:**
  - 1pm – 2pm Monday (MAK C2-316)
  - 11am - noon Wednesday (MAK C2-316)
  - 5pm-5:50pm Thursdays (EC 618B) or by appointment.
- **Email:** [kurmasz@gvsu.edu](mailto:kurmasz@gvsu.edu)
- **Web Page:** [www.cis.gvsu.edu/~kurmasz](http://www.cis.gvsu.edu/~kurmasz)

# CATALOG DESCRIPTION

- Current and emerging web-based technologies, protocols, system architectures, development frameworks, and languages.



# GOALS

- An in-depth understanding of the HTTP protocol.
- Construct web pages with HTML 5 and CSS 3.
- Contrast W3C WebServices with RESTful Services.
- Discuss how dynamic content is delivered by web servers.

# GOALS

- Illustrate how a web browser requests resources from a server and interprets the results.
- Create dynamic web pages using Javascript.
- Understand the mechanisms behind responsive web apps.
- Compare / evaluate web application frameworks.
- Create a full three-tier web application.

# WHY SHOULD I TAKE THIS COURSE?

- You can watch YouTube to learn the “magic words”; but,
  - When the magic words don’t work, your only recourse is to go back to YouTube for different “magic words”
  - You technically don’t need to know how a car engine works in order to drive, it isn’t a bad idea to learn the basics.
  - A little bit of knowledge can help you diagnose and solve a lot of problems.
- I found it much easier to memorize physics formulas when I understood how they were derived.
  - Likewise, I found it much easier to learn frameworks when I understood how they were implemented.
  - The implementation details provide a mental model into which I can fit the framework, which makes it feel less arbitrary.



# THE “SWEET SPOT”

- Not enough time to become an expert but:
- Help you learn new web development frameworks faster.
- Help you to make better use of web dev frameworks, more scalable web apps, etc..
- Help you make better choices with regard to framework selection.
  - When your only tool is a hammer, everything begins to look like a nail.
  - I want to make sure you have more than a hammer.

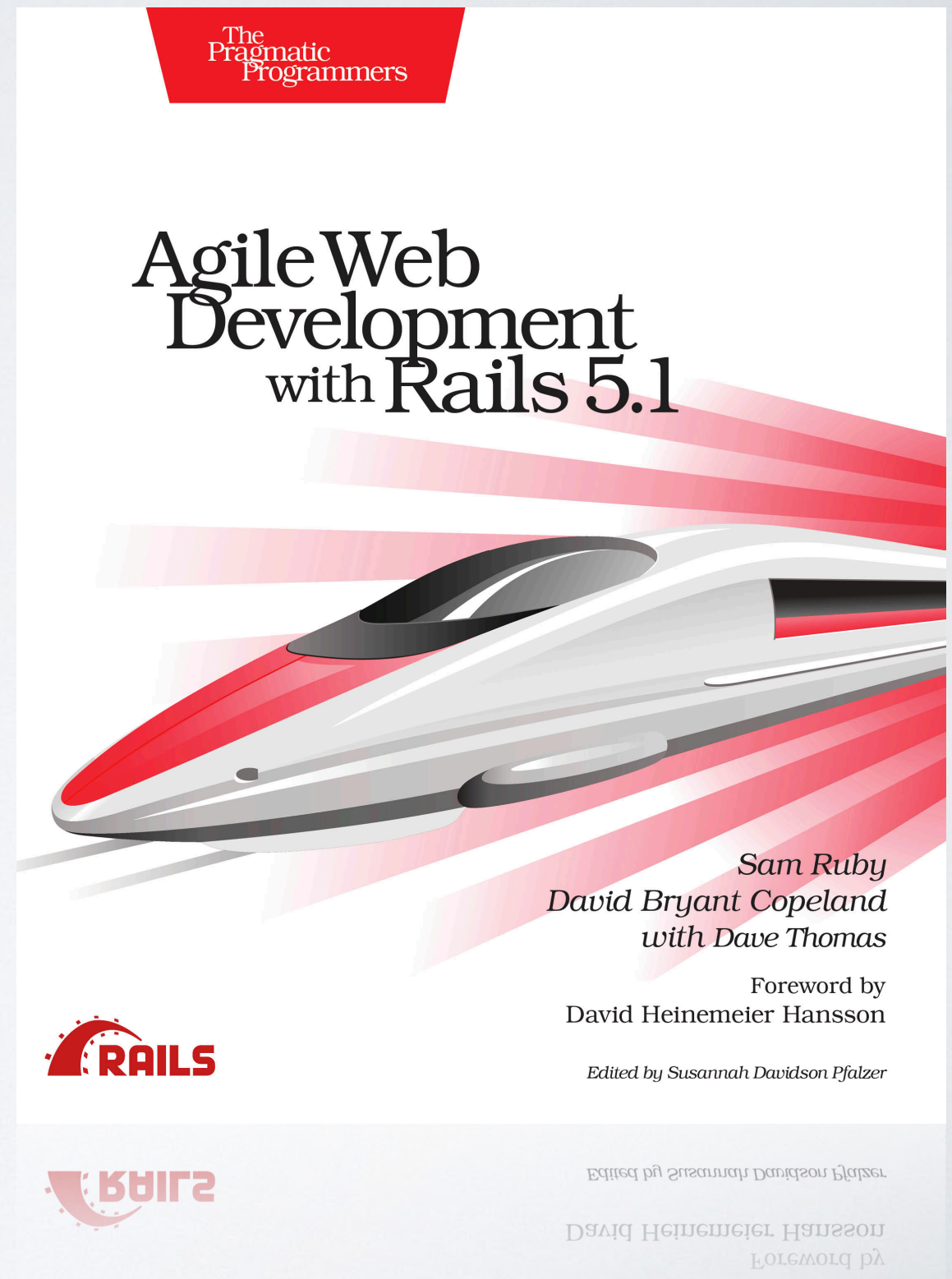
# GRADING

- **Participation:** 10%
  - (That means contributing to discussion during class.)
- **Homeworks/Projects:** 40%
- **Midterm Exam:** 25%
- **Final Exam:** 25%



# OPTIONAL TEXT

- Agile Web Development with Rails 5.1. by Ruby, Copeland and Thomas.
- Available online free through GVSU library
- Version for Rails 6.0 due soon



# ACADEMIC HONESTY

- You are expected to read, understand, and follow the department's Academic Honesty Policy which can be found at <http://www.cis.gvsu.edu/academic-honesty/>



# DISABILITY SUPPORT

- If there is any student in this class who has special needs because of a learning, physical or other disability, please contact me and Disability Support Services (DSS) at 616.331.2490. Furthermore, if you have a disability and think you will need assistance evacuating this classroom and/or building in an emergency situation, please make me aware so I can develop a plan to assist you.