

# CODE FELLOWS

Code 301: Intermediate Software Development

# CF STAFF YOU MAY ALREADY KNOW



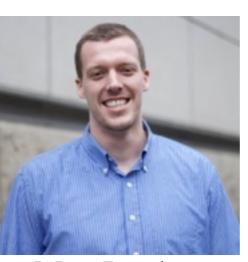
Jordana Gustafson
Director
PDX Campus



Al She Instructor PDX Campus



Marty Nelson
Principal Instructor
PDX Campus



Max Jacobsen
Teaching Assistant
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Lindy Levinson
Director of Admissions



Karinne Breidenbach Admissions

# CF STAFF YOU MAY KNOW OR MEET



Ivan Storck
Co-founder /
code guru



Brook Riggio
Lead Instructor /
Co-founder



Will Little CTO / Co-founder



Brandy Rhodes
Director, SEA Campus



Sarah Fischer Digital Marketing Mgr.



Dave Parker CEO



Jeff Malek COO



Mitchell Robertson VP Business Development

# WEB DEVELOPER

## WEB DEVELOPERS ARE CONSTANTLY LEARNING

#### Paths:

- ➤ Shape behavior
- ➤ Are games to be played
- ➤ Lead people along



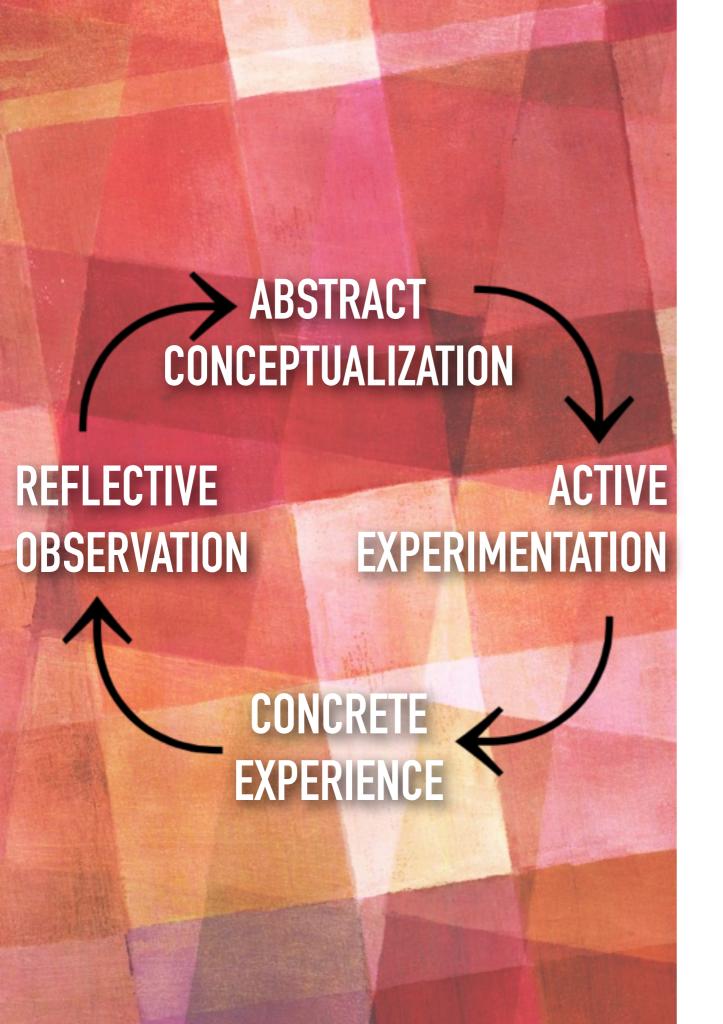
- ➤ Have predictable outcomes
- ➤ Are measurable
- Design every detail
- ➤ Are consumptive
- Create dependency
- ➤ Have a clearly defined purpose
- ➤ Lead to completion
- ➤ End in an EXCHANGE

# Sandboxes:

- Create engagement
- ➤ Are spaces in which to play
- ➤ Let people explore
- ➤ Have unknown outcomes
- ➤ Are observable
- ➤ Underspecify the design
- ➤ Are generative
- ➤ Encourage autonomy
- ➤ Purpose is self-determined
- ➤ Lead to understanding
- ➤ End in LEARNING & DISCOVERY

# DAILY SCHEDULE

9am-12pm	12pm-1pm	1pm-5pm
Class	Lunch	Lab



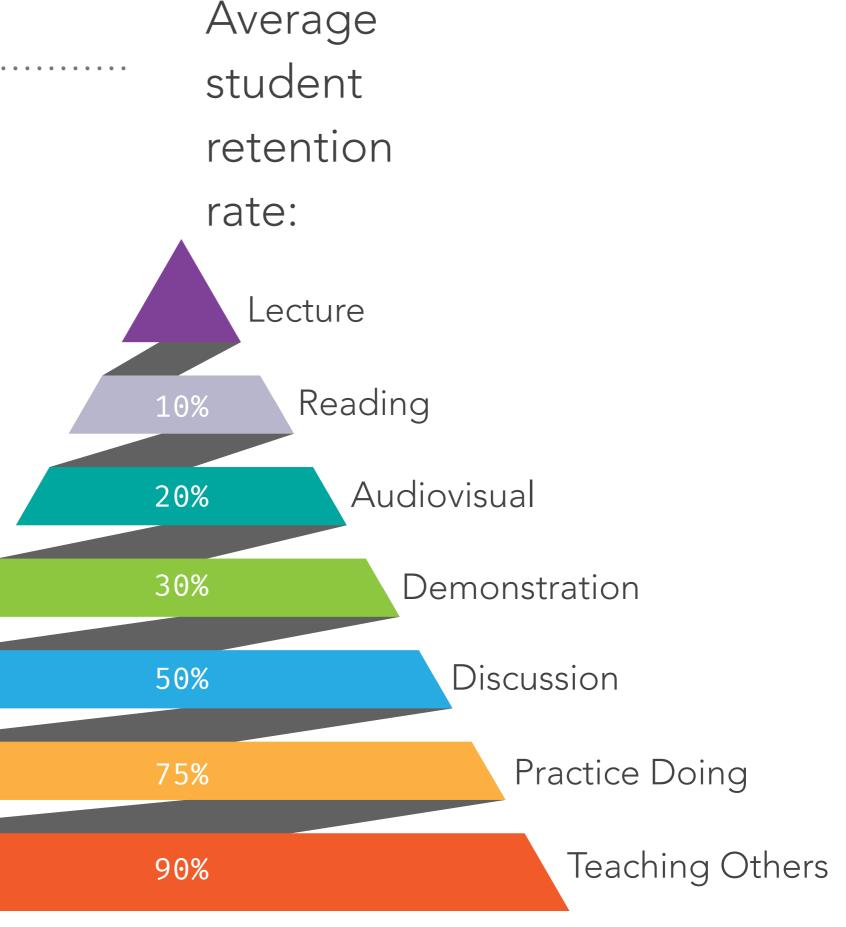
# THE ADULT LEARNING CYCLE

- > From the top going clockwise:
  - The first exposure to a new concept. (lecture)
  - ➤ Trying out the concept in the specific scenarios. (examples/demos)
  - Working through a complete use case.
     (assignments/projects)
  - Reviewing progress.(code review/discussion)

# **DON'T FORGET**

The more you apply your knowledge, the more you'll retain your knowledge.

➤ To help and teach others is how you master your skills.



# **COLLABORATIVE LEARNING IS AWESOME!**

# HONOR CODE

As members of the Code Fellows community, each of us upholds and supports a high standard of personal, and community, honesty and integrity. We believe these values are critical to a community dedicated to learning, personal development, and a search for understanding. We consider them essential in promoting personal responsibility, moral and intellectual leadership, and pride in ourselves and our organization. (excerpt)

➤ Please read, acknowledge, and sign the Code Fellows Honor Code.

# **PLAGIARISM**

- ➤ Please collaborate!
- ➤ Make sure to give proper attribution to sources you draw from for your projects.
- "\_\_\_\_\_ helped with \_\_\_\_\_"
- ➤ Add it to your README, or a collab.md doc in your repo.
- ➤ **Never** copy and paste code.
- ➤ If you want to use someone else's snippet, **RETYPE** it, so you can learn it, and think about how it fits in with your existing code.



# **CODE OF CONDUCT**

- ➤ We want an environment where every individual is safe and respected.
- ➤ Harassment and discrimination will not be tolerated.
- ➤ If you have concerns, please notify a member of the Code Fellows team.
- ➤ Read the full Code of Conduct:
  - https://github.com/ codefellows/code-of-conduct



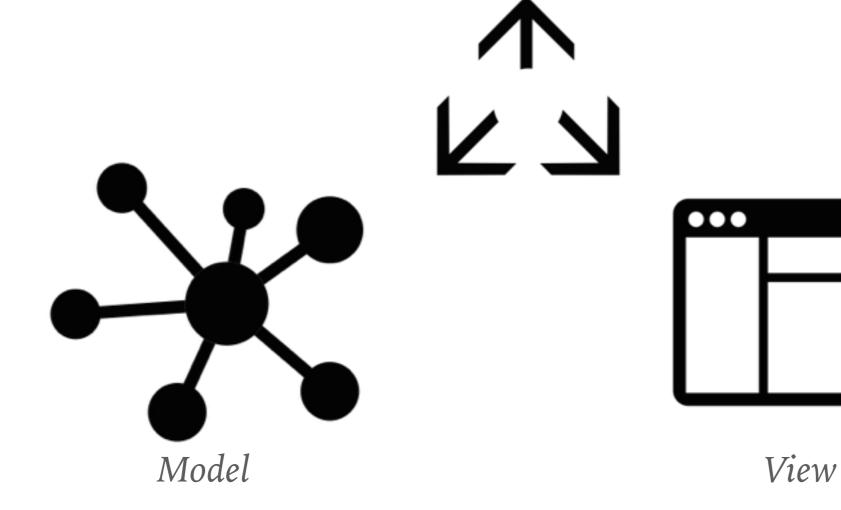
Success in a diverse classroom comes from a balance of student self-awareness and community acceptance of others.

Beth Morrow

# **CODE 301 STRUCTURE: MVC**

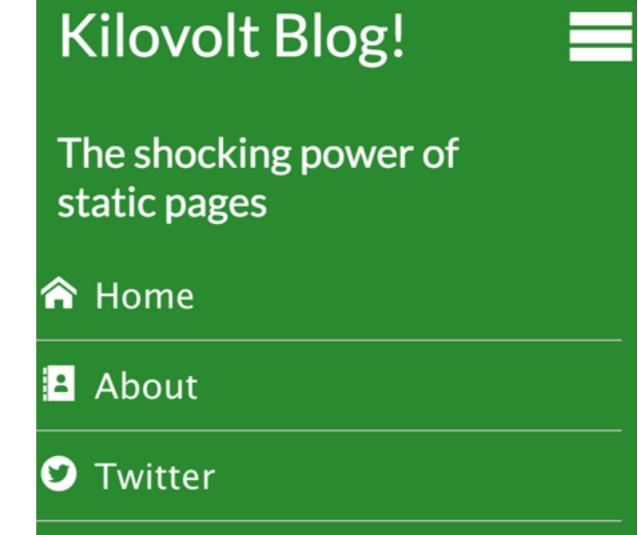


Controller



## BUILD A BLOG

- ➤ Your demonstration of expertise
- ➤ A classic dev endeavor!
- ➤ All client-side
- ➤ MVC abstractions
- ➤ Mobile responsive!





G GitHub

# Overriding Wireless Solid state Hard drive Drivers

# CODE 301 STRUCTURE: MVC

Week 1: View	Week 2: Model	Week 3: Controller	Week 4: Projects
jQuery — DOM	AJAX & JSON	Routing/WRRC	Team Project
jQuery — Events	Functional Managing State Programming		Team Project
RWD	SQL	REST & APIs	Team Project
Templates Joins & Relations		Beyond MVC	Team Project
Pair Project	Pair Project/TP	Team Project	Project presentations

# STACKED LEARNING

day 1 day 2 day 3 day 4 day 5 day 6 day 7 day 8 C1 C1 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 C3 **C3 C3** C3 **C3** C4 C4 C4 **C4** C4 **C5 C5 C5 C6 C6 C7 C8** С Concept I kinda get it I'm getting it more realizing I didn't get it ed it on my own realized I used it wrong used it right en to and not to use it

## STACKED LEARNING

#### Code 201

Competency (you can figure it out) in basic JS, HTML, CSS, & OOP

#### Code 301

- Proficiency (familiarity/comfort) in basic JS, HTML, CSS, & OOP
  - ➤ Competency in basics of: Agile development, MVC, jQuery, functional prog., async prog., routing, SQL, HTML templates, WRRC, routing, REST

# STACKED LEARNING

#### Code 401 - Initial

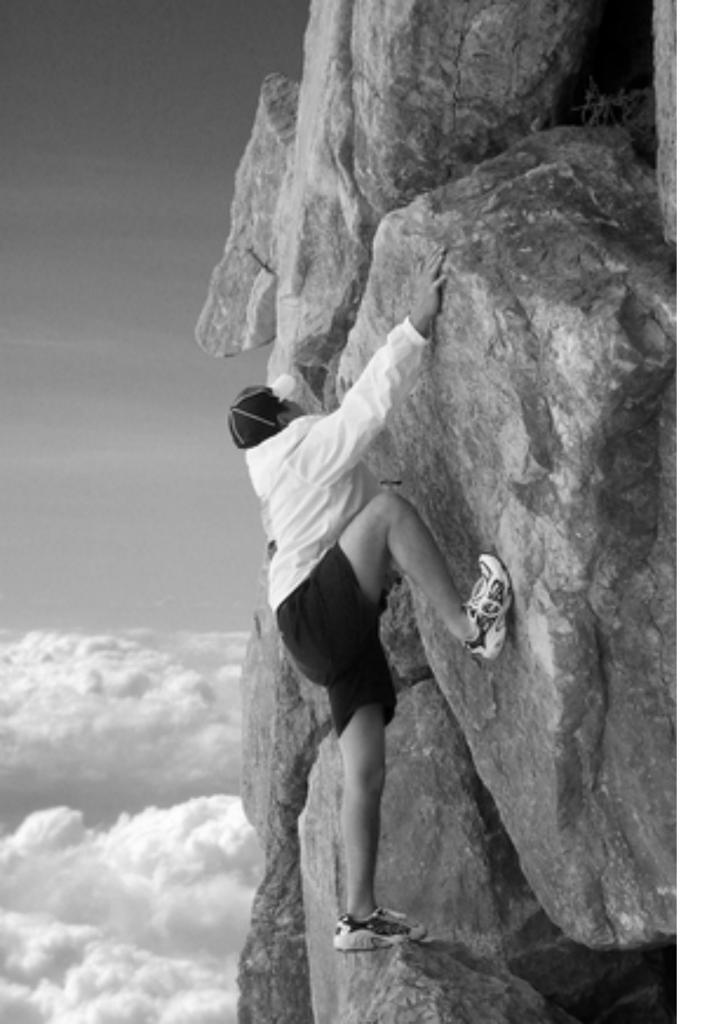
- ➤ Fluency in basic JS, HTML, CSS, & OOP
  - ➤ **Proficiency** in basics of: Agile development, MVC, jQuery, functional prog., async prog., routing, SQL, HTML templates, WRRC, routing, REST.
    - ➤ Competency in more advanced aspects of majority of previous items.
    - ➤ Competency in the MEAN stack.

#### Code 401 - Final

➤ **Fluency** in majority of the above areas more fluent = more likely to find work sooner/better offer(s)

# EXPECTATIONS

# 



# RISE TO YOUR CHALLENGE

- ➤ Everyone learns at different rates. Don't compare yourself to others.
- ➤ This program is designed to be intense.
- Adjust your expectations and understand that frustrations will come and go, as will small victories.

## **EXPECTATIONS**

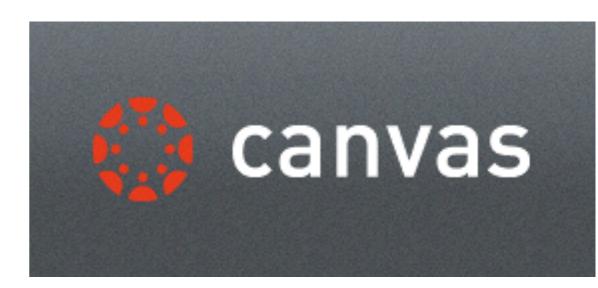
- ➤ We care about your career success.
- ➤ We define and help, but you do the work.
- ➤ 301 is **challenging**. 201 to 301 is a jump in difficulty and pace.
  - ➤ You are **not** expected to find it easy, nor to understand each topic right away.
  - ➤ Having no idea is **OK** and normal.
  - ➤ You are here to learn **how** to figure out new things in software development. When you solve a tough problem in this class, be proud of your solution, but even more proud every time you **learn** a new way to find solutions. You're expected to keep *learning* **how to learn**.

## **EXPECTATIONS**

- ➤ 301 is **immersive**. To gain strong coding skills and perform well, you need a **ton** of coding practice. Read, talk, listen, but above all, **WRITE CODE**.
  - ➤ Time management: target 2 hours pair lab + 2 hours solo lab, but you mange your time. Leave as much time as possible to "play in sandboxes" after lab.
  - ➤ Lectures to target labs and provide details on exactly what to focus on in labs.
- ➤ Code reviews to focus on code analysis (logic) and "JS-speak".
- ➤ Final projects: minimum viable product ("MVP") required, but other technologies encouraged.

# **GRADING**

- ➤ A 90% overall grade is required to pass this course.
- Penalty for late work:
  - Stress, fall behind
  - ➤ 20% penalty
- No assignment submissions during Project Week
- ➤ 90% attendance required



# **CANVAS: SETTINGS**

Brook Riggio's Settings Full Name:\* **Brook Riggio** This name will be used for grading. Display Name: **Brook Riggio** People will see this name in discussions, messages and Sortable Name: Riggio, Brook This name appears in sorted lists. Default Email: brook@codefellows.com Language:

This will override any browser or account settings.

System Default (English (US))

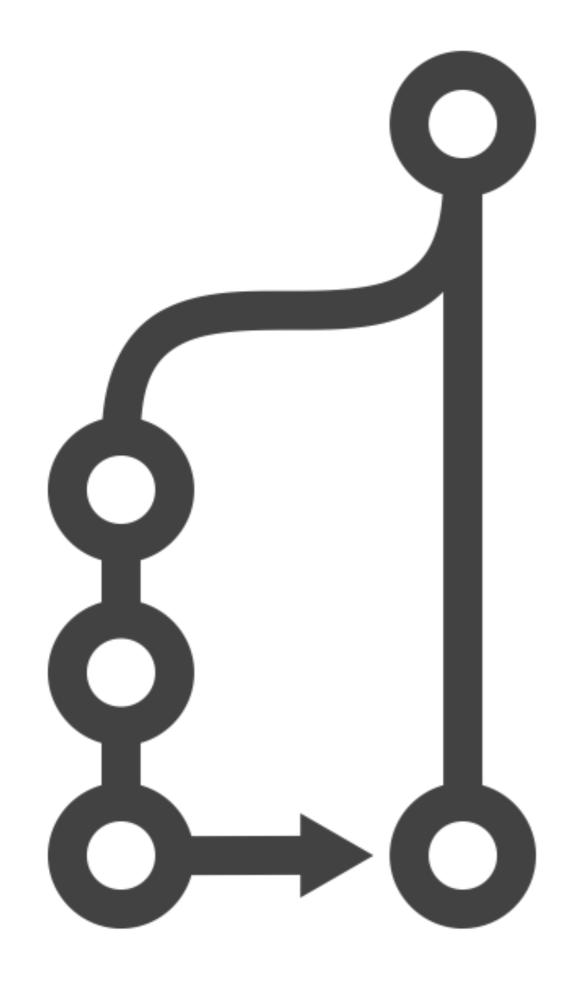
Time Zone: Pacific Time (US & Canada) (- ▼

# **CANVAS: MODULES**

₩ week 1 Class 1 Read: JS & jQ 293-325 Code: Class 01 Assignment Bonus: Class 01 Extra Credit Path Assignment Class 2 H Read: JS & jQ pp 326-366 Code: Class 02 Assignment H Review: Quiz I Bonus: Class 02 Extra Credit Design Path Class 3 Read: Shay Howe's Intro and Dale Sande's Intro Code: Class 03 Assignment Bonus: Class 03 Extra Credit Responsive Layouts

# **CANVAS: CALENDAR**

MON	TUE	WED	THU	FRI
30	1	2	3	4 .
8:59a Read: JS & jQ 293-3;	9a Class Time	9a Class Time	9a Class Time	10a Class Time
9a Class Time	8:59p Read: JS & jQ pp 32t	8:59p Read: Shay Howe's I	8:59p Read: Handlebars an	Bonus: Class 05 Extra Cre
Bonus: Class 01 Extra Cre	Bonus: Class 02 Extra Cre	Bonus: Class 03 Extra Cre	Bonus: Class 04 Extra Cre	Class 05 Read: TBD
Code: Class 01 Assignmer	Code: Class 02 Assignmer	Code: Class 03 Assignmer	Code: Class 04 Assignmer	Code: Class 05 Pair Projec
Discuss: TBD	Review: Quiz I		Review: Quiz II	Feedback: Week 1
7	8	9	10	11
9a Class Time	9a Class Time	9a Class Time	9a Class Time	10a Class Time
8:59p Read: JS & jQ pp 36:	8:59p Read: JS & jQ pp 53(	Code: Class 08 Assignmer	8:59p Read: Class 09 TBD	8:59p Read: Class 10 TBD
Bonus: Class 06: Intro to A	Code: Class 07 Assignmer	Read: Class 08 TBD	Code: Class 09 Assignmer	Code: Class 10 Pair Projec
Code: Class 06 Assignmer	Review: Quiz III		Review: Quiz IV	Feedback: Week 2
14	15	16	17	18
9a Class Time	9a Class Time	9a Class Time	9a Class Time	10a Class Time
8:59p Read: Class 11 TBD	8:59p Read: Class 12 TBD	8:59p Read: Class 13 TBD	8:59p Read: Class 14 TBD	8:59p Read: Class 15 TBD
Code: Class 11 Assignmer	Code: Class 12 Assignmer	Code: Class 13 Assignmer	Code: Class 14 Assignmer	Feedback: Week 3
	Review: Quiz V		Review: Final Quiz	



# **TURNING IN WORK**

- ➤ You will create repositories on GitHub for assignments and projects.
- ➤ All work is done in a branch.
- ➤ When complete, make a Pull Request to master.
- ➤ On Canvas, you will turn in a link to the Pull Request that corresponds to the assignment.

# SURVEYS

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# **FACILITIES**

- ➤ Door codes
- ➤ WiFi
- ➤ Classroom/lab/conf. rooms
- ➤ Kitchen
- ➤ Bathrooms



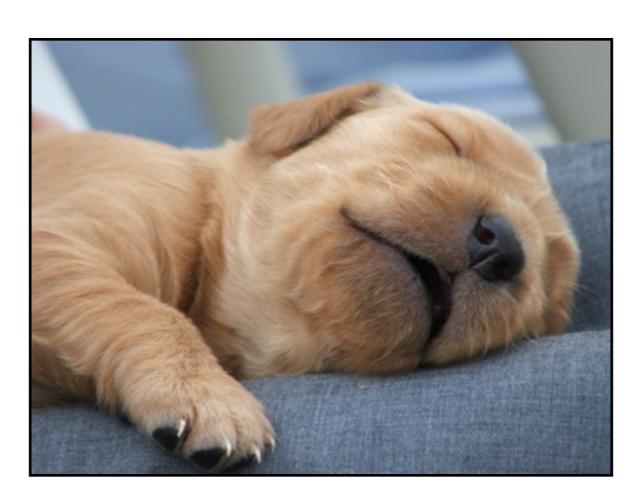
# **OUR FAVORITE LUNCH SPOTS**



- 1. Food carts!
- 2. Chipotle
- 3. Cafe Yumm, Freshii
- 4. Floyd's? Breakfast burrito!!
- 5. Many others within walking distance.

# STAYING ALIVE

- ➤ Maintain balance.
- > Stay connected to support networks.
- ➤ If you neglect sleep, your focus and ability to retain knowledge will suffer.



# POPQUIZ ON...

# YOU!



# **INTRODUCE YOUR CLASSMATE!**

Pair up with a classmate you didn't know before Code 201. Spend 2 minutes to learn about your classmate, then spend 2 minutes telling your classmate about yourself. Learn these items (take notes if needed), then report on your classmate to the whole class.

- A. Full name. How is it spelled?
- B. Why he/she is here in 3 words. Find the why behind the why.
- C. Something you've done to improve a community, or to cheer up others.

## RESOURCES AND ATTRIBUTIONS

- ► <a href="http://www.doctorpreneurs.com/wp-content/uploads/2015/08/Learning-Pyramid-synap.jpg">http://www.doctorpreneurs.com/wp-content/uploads/2015/08/Learning-Pyramid-synap.jpg</a> (with improvements by Dexter Lesaca)
- https://row2row.files.wordpress.com/2015/06/struggle1920x12001.jpg
- https://en.wikipedia.org/wiki/Kaizen
- ➤ Vectors from nounproject.com created by: Richard Slater, Pham Thi Dieu Linh, DesignNex, Hannah Strobel, Steve Morris, Dmitry Mirolyubov, Alex Fuller, Alexander, Renee Ramsey-Passmore, and Creative Stall.
- Stephen Anderson From Paths to Sandboxes: <a href="https://vimeo.com/110333993">https://vimeo.com/110333993</a>