

# Agenda

## Intros:

WWCode @ Code Fellows PDX

Link to slides:

<https://github.com/wwcodeportland/study-nights/tree/master/algorithms>

## Data Structure Summary:

Stacks – What, How and Why?

## Lab Time:

Pair Programming + 3 Stack Algorithms

# Algorithms Study Night



Code Fellows PDX

# Leadership Team



Caterina  
Director



Richa  
Skills Development Lead



Shiyuan  
Design Lead



Tricia  
DevOps Lead



Alia  
Algorithms Lead



Shae  
React Lead



Sabina  
Events Lead



Sarah Joy  
JavaScript Lead



Keeley  
Community Lead



Morgan  
Community Lead

# Upcoming Events - March

- [Networking Night @ Vacasa](#) - Tue, April 4th, 6 PM
- [Tech Talk: Site Reliability Engineering @ Dropbox with Tammy Butow](#)  
- Wed, April 12th, 6 PM
- [Roll Call: DockerCon 2017 \(Austin TX\)](#) - Mon, April 17th, 9 AM
- [Design + Product Study Night](#) - Tues, April 18th, 5:30 PM
- [PDX Empower](#) - Thur, April 20th, 6 PM
- [JavaScript Study Night @ Metal Toad](#) - Wed, April 26th, 5:30 PM
- [Roll Call: Women Who Code CONNECT 2017](#) - Sat, April 29th, 8 AM

# {short} Code of Conduct

**Women Who Code (WWCode)** is dedicated to providing an empowering experience for everyone who participates in or supports our community, regardless of gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, ethnicity, age, religion, socioeconomic status, caste, or creed. Our events are intended to inspire women to excel in technology careers, and anyone who is there for this purpose is welcome. Because we value the safety and security of our members and strive to have an inclusive community, we do not tolerate harassment of members or event participants in any form. Our [Code of Conduct](#) applies to all events run by Women Who Code, Inc. If you would like to report an incident or contact our leadership team, please submit an [incident report form](#).

# Resources

WWCode @ [Meetup.com](https://www.meetup.com/wwcode/)

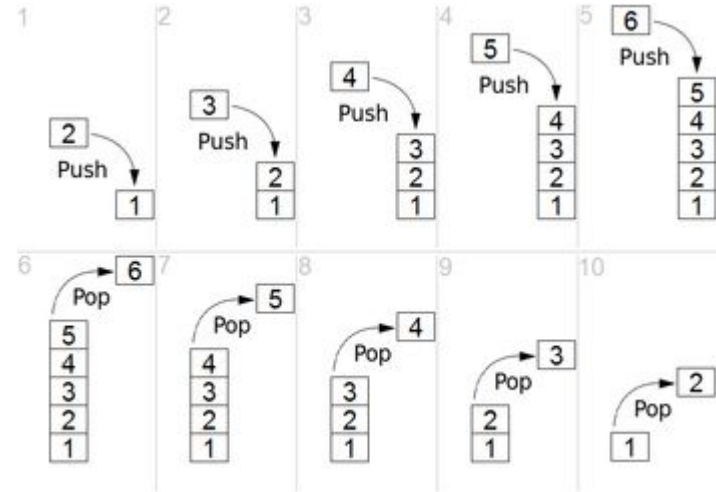
WWCode @ [Slack](#)

WWCode @ [Github](#)

# Big-0 CheatSheet

# Basics of Stacks

- Last In First Out(LIFO) structure
- Often used in recursion
- Most common functions include
  - Push - put the next item on top of the stack
  - Pop - take the top item off of the stack and return it
  - Peek - look at the top item on the stack
  - isEmpty - check if the stack is empty



# Additional Information

[Javascript Array push/pop](#)

[Java Stack Class](#)

[Python List append/pop](#)

You can find different implementations of Stacks on the Wikipedia page

[Stack\\_\(abstract\\_data\\_type\)](#)



# 3 Stack Problems

## 1 | Balanced Brackets

- [HackerRank](#)

## 2 | Decode String

- [LeetCode](#)

## 3 | Reverse Polish Notation

- [LeetCode](#)