



the premier computer science
organization

WE HOPE YOU FEEL AT HOME

Welcome!

WHILE YOU'RE WAITING...

- Check in at tinyurl.com/acmucr
 - Then head to the back to claim your free pizza!
- Take this opportunity to meet someone new :)
- Check out our shiny new website?
 - acmucr.org



Winter 2020

General Meeting 2



January 15th, 2020

acmucr.org/checkin



The word "Membership" is centered in a large, bold, black sans-serif font. Behind the text is a graphic element consisting of four overlapping triangles pointing towards the top right. The triangles are colored pink, yellow, light green, and light blue, creating a layered effect.

Membership

WHO DOESN'T LIKE PERKS?

Membership Perks

- Clubroom Access (WCH 127)
- Clubroom Lockers
- Free T-Shirt
- Priority access to exclusive ACM Member events
- Mentorship Program
- Mock Interviews (acmucr.org/interviews)
- Collect ACM Badges
- App Developer Licenses



WHO DOESN'T LIKE PERKS?

The ACM Clubroom

A collaborative workspace, social hub, study room, and academic resource

- Open 24/7 for Members (free card access)
- Fridge & Microwave
- Lockers (already distributed! Ask a board member if there are extras)
- Free Printing
- Desktop Computers
- Whiteboard Walls and Tables



COLLECT THEM ALL!

ACM Badges



APPLY/REQUIREMENTS:
ACMUCR.ORG/BADGES

READY TO COLLECT?
MESSAGE CAROLYN!

BECOME A PART OF THE COMMUNITY

How do I become a member?

ACM@UCR Chapter Membership is **\$20** per year.

- New Bundle Deal! **\$30** for ACM and WinC (ACM-W)



01 We use CashApp: sign up at **cash.me/app/TMNLBFB**

02 CashApp or pay in cash to Zubair or Elise

03 Include in your payment description

- Name, UCR Email, Shirt Size, Card ID

Membership Chair: Zubair Qazi

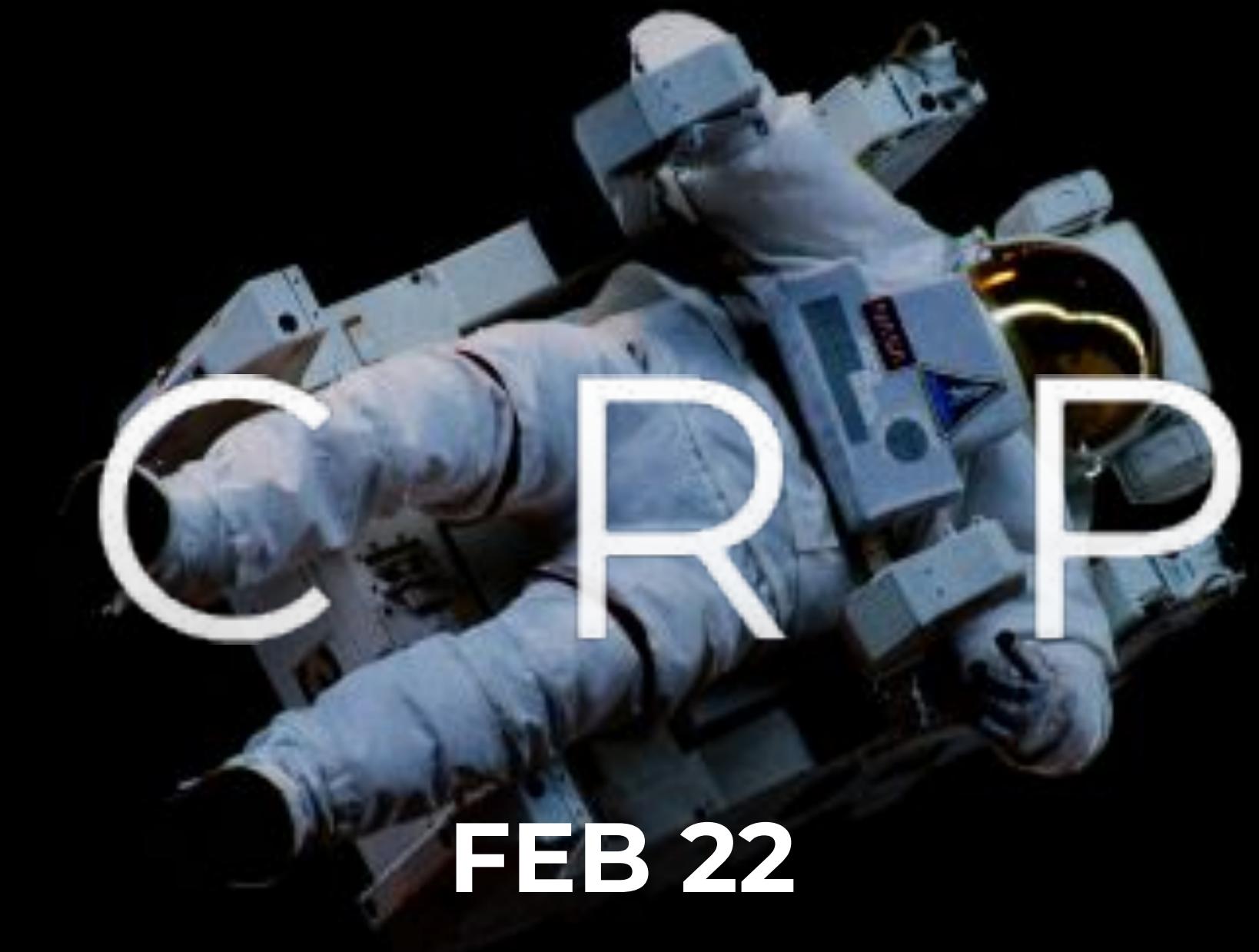
zubair@acmucr.org



Getting Involved



ACM@UCR PRESENTS



U C R P C

2
0
2
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2
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2
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FEB 22

// APPLY at UCRPC.NET //



FEB 22

We are accepting participants on a first come first serve basis -- spots are filling up quickly!

We're expecting about 100 participants, and teams will get a chance to win money (*in gift card form*)

Full list of event guidelines are listed on the website

food and event tshirts provided

ucrpc.net

COMPETITIVE PROGRAMMING

ICPC Practice

QUESTIONS?

CONTACT JIHWAN KIM ON SLACK

JOIN #comp-programming on CS@UCR

Slack for practice test link

PRACTICES:

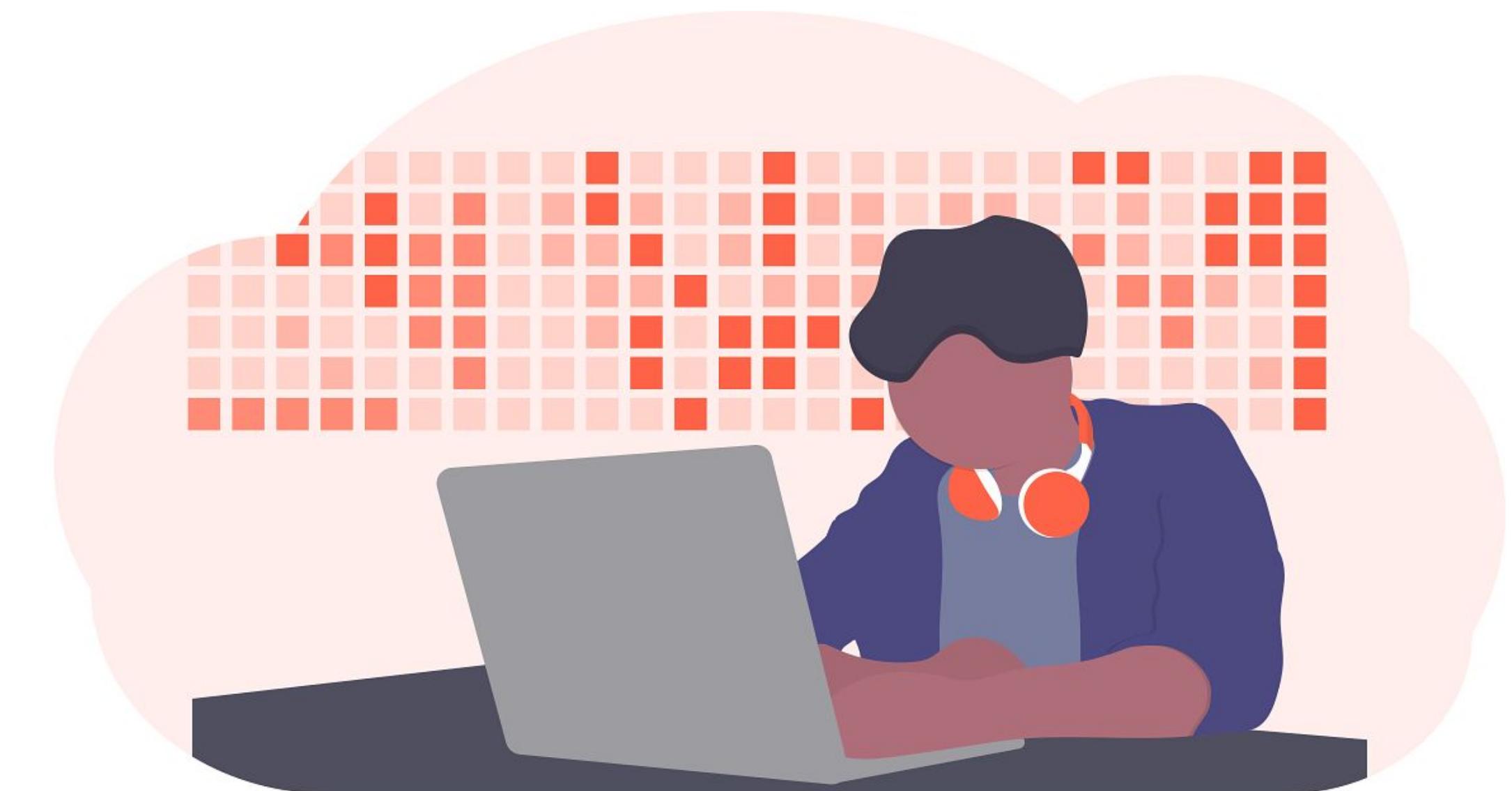
Saturdays, 10:30 - 2:30pm

10:30-11: pizza

11-12: lecture

12-2: mock-competition

2-2:30: review



icpc

BECAUSE LEARNING A NEW SKILL IS AWESOME

Focus Groups

A year-round workshop group specially curated and designed to teach you new skills from the ground up. No experience necessary!



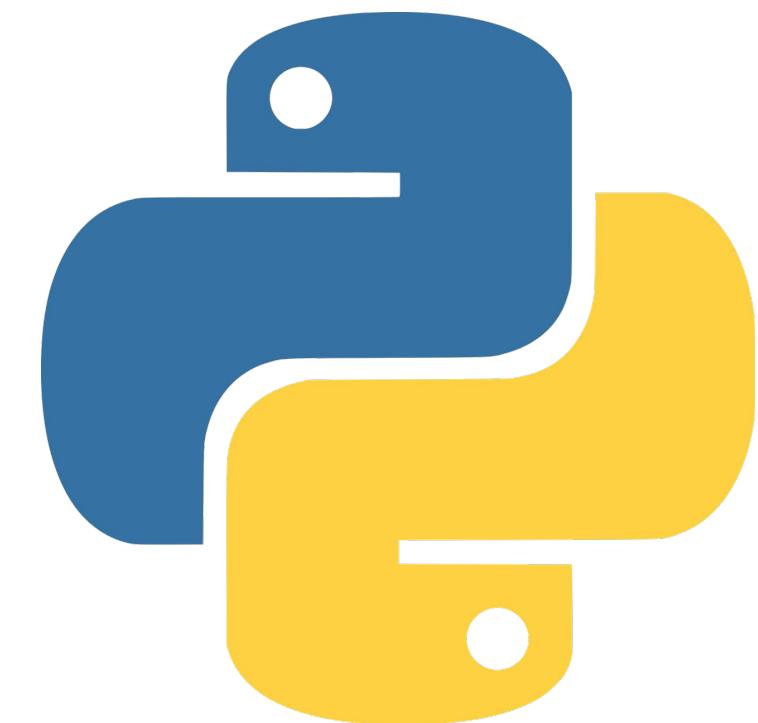
iOS DEVELOPMENT

THURSDAYS, 2-3 PM
@ACM Room (WCH 127)



WEB DEVELOPMENT

TUESDAYS, 1-2 PM
@ACM Room (WCH 127)



PYTHON

MONDAYS, 11-12 AM
@ACM Room (WCH 127)

BECAUSE LEARNING A NEW SKILL IS AWESOME

Focus Groups

A year-round workshop group designed to teach you how to build iOS application using various libraries



iOS DEVELOPMENT

THURSDAYS, 2-3 PM
@ACM Room (WCH 127)

This Week:



Build a reddit clone using real Reddit data.

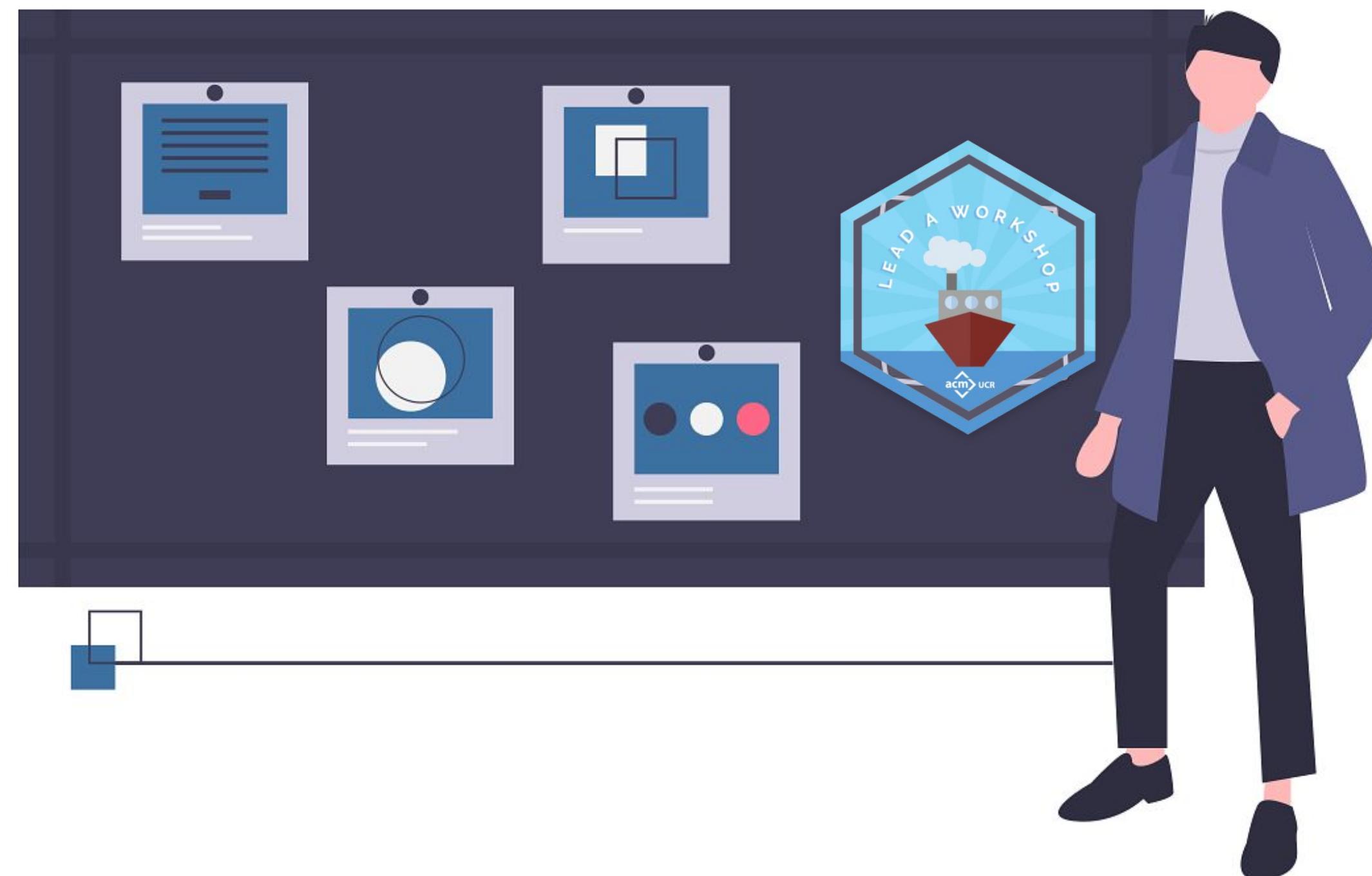
Add a project to your resume!

BECAUSE LEARNING A NEW SKILL IS AWESOME

Member Led Workshops

Ever wanted to lead a workshop to share with ACM?

Interested in sharing your guide to a cool framework? cool hardware? your optimal workflow? or even a guide to an ergonomic desk setup?



SIGN UP HERE

<https://acmucr.org/leadaworkshop>

PSST!

It's another badge opportunity!

Upcoming Events



CYBERSECURITY @ UCR

Cyber@UCR

**GENERAL MEETING #3:
BUFFER OVERFLOW EXPLOIT**

**WEDNESDAY, FEB 5TH
4-5PM IN WCH 205/206**



**QUESTIONS/COMMENTS?
CONTACT@UCRCYBER.ORG**

WOMEN IN COMPUTING @ UCR

ACM-W

**GENERAL MEETING #2:
WOMEN IN TECH PANEL**

**WEDNESDAY, FEB 5TH
4-5PM IN WCH 205/206**

QUESTIONS/COMMENTS?

WINCUCR@GMAIL.COM



Citrus Hack in Winter Quarter

Citrus Hack is coming up in Spring... the Cutie/Citrus Hack team is beginning preparations for Citrus Hack 2020! If you're looking to get more involved, here's your chance 

General Meeting (Winter Quarter)

Wednesday, Feb 5th

2-3PM Bourns A265





Weekly Meetings

	Day & Time	Location
Marketing	Thursday 12-1pm	WCH 102
Sponsorship	Monday 2-3pm	WCH 102
Operations	Monday 2-3pm	WCH 102
Web Dev	TBA	WCH 102

Add the meetings in your calendar: tinyurl.com/CHMeet1920
Get updates on Slack via <https://tinyurl.com/CHPlanningSlack20>

More Announcements



DESIGN THIS YEAR'S SHIRT!

ACM T-Shirt Competition

Submissions close in two weeks!

Send in submissions here: <http://bit.ly/acmtshirts>



PSST!

ELECTION SEASON IS HERE

INTERESTED LEADING ACM?

2020-2021 Elections

Are you interesting in leading the next generation of ACM?

Submit an application here: <http://bit.ly/acmofficerapps>

We are opening our board meetings for interested candidates

Every Tuesday, 10-11am in WCH 102



FOR QUESTIONS, MESSAGE JANINE
ON SLACK OR AT JANINE@ACMUCR.ORG



ELECTION SEASON IS HERE

INTERESTED LEADING ACM?

2020-2021 Elections FAQ



How do elections work?



FOR QUESTIONS, MESSAGE JANINE
ON SLACK OR AT JANINE@ACMUCR.ORG



Keep In Touch

FOR SOCIAL SHENANIGANS

Follow Us:

The social/professional hub for all things computer science at UCR. Our very own Slack workspace! Join us at acmucr.org/slack.

- Instagram: [@acm_ucr](#)
- Facebook: [acmucr.org/fb](#)
- Website: [acmucr.org](#)







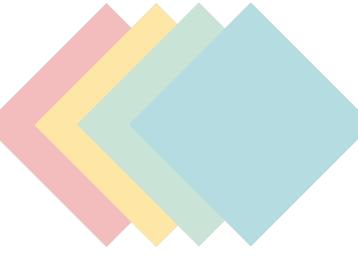
“Nothing wrong with not

knowing, there is

something wrong with

not trying.”

- IDK, but I will be happy to take credit :)



“You don’t need to be an
expert, you just need to
know enough to do a
good job!”

- Me, Anthony Hallak



#1

Introduction

What is?

Common Misconceptions

#3

Examples

Live Demo / Walkthrough

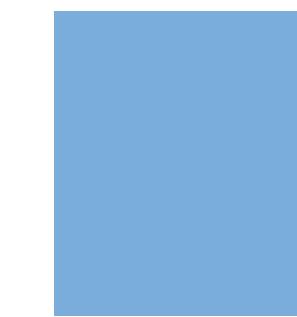


#2

Topic

Basic Overview

Common Practices

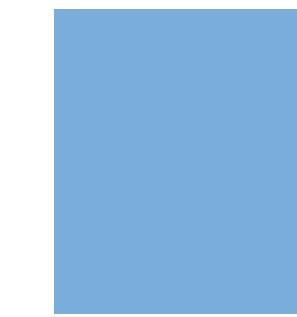


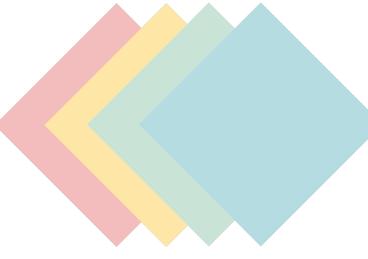
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Questions

Audience Participation

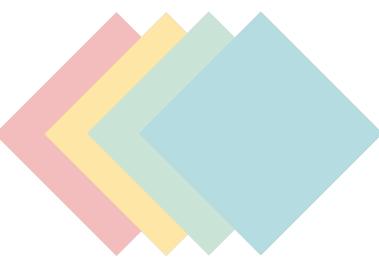
Q/A





What's Linux?

Linux is a *kernel*, but we are lazy and don't care too much so we refer to the whole system as a “linux” system (Should be referred to as GNU/Linux). For this reason, when people are using “Bash” or another shell, it is often just dubbed “Linux” but this is not 100% correct.
(MacOS has a terminal and its BSD based)



Kernel? Like the popcorn?

Serves as the middleman for the OS

Is one of the first things to boot up

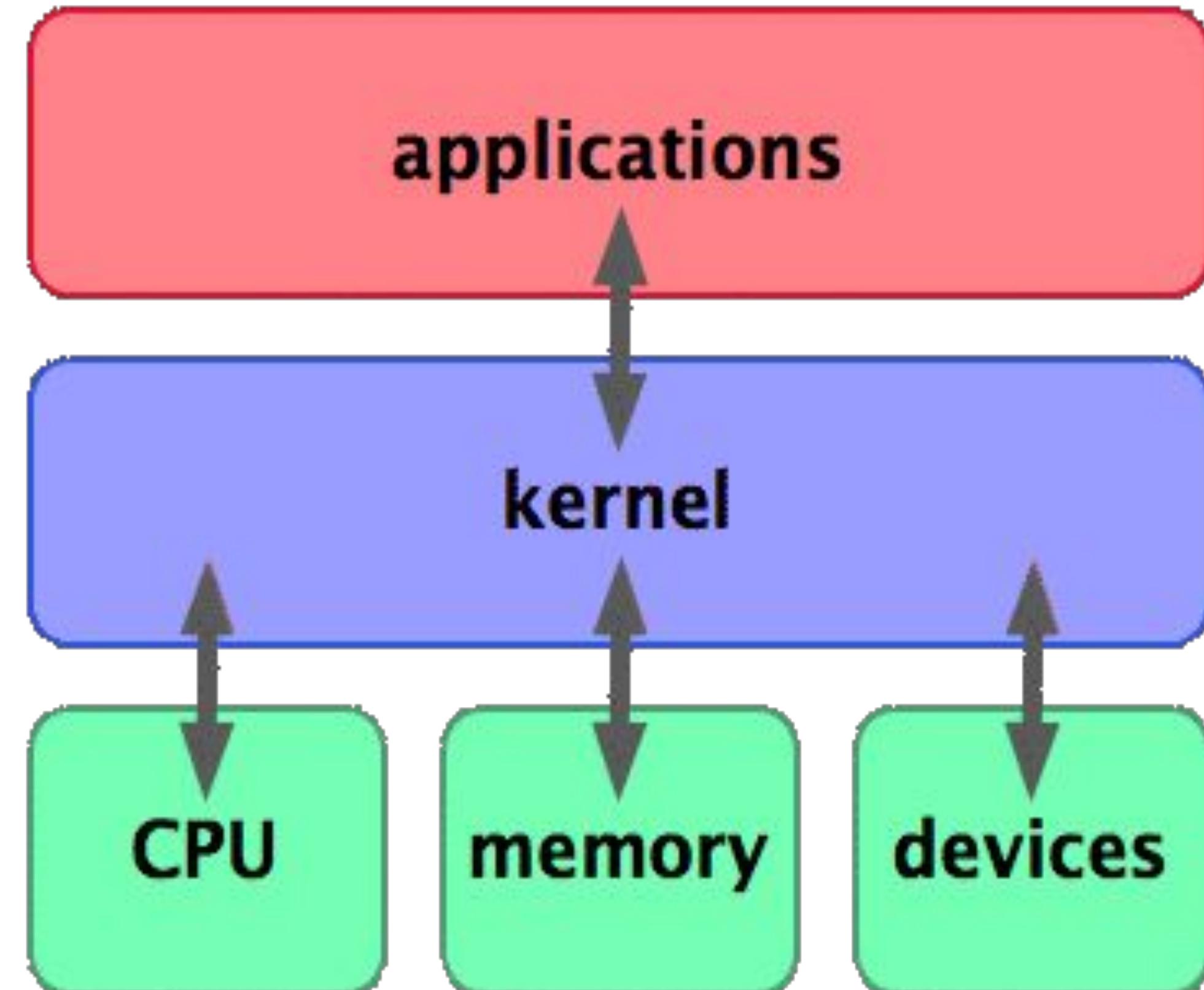
Comes in two flavors

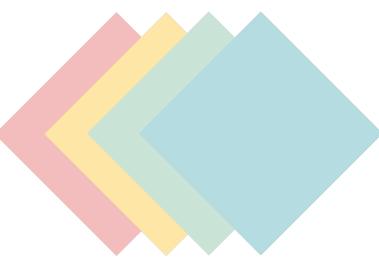
Monolithic kernels, like one big stone

Micro kernels, think a bunch of Legos combined

(There are hybrids and other types...)

There are a lot of different versions / types





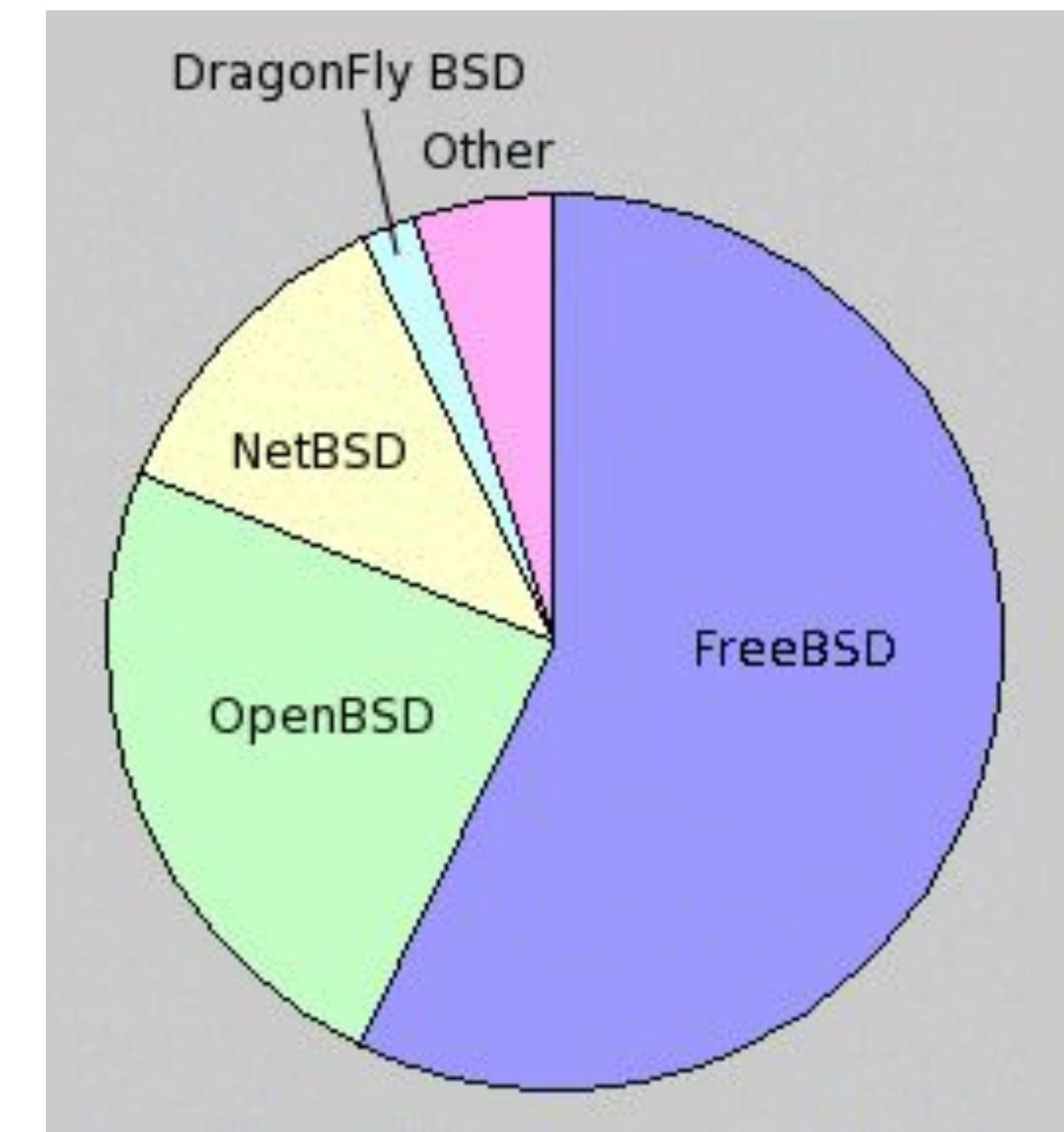
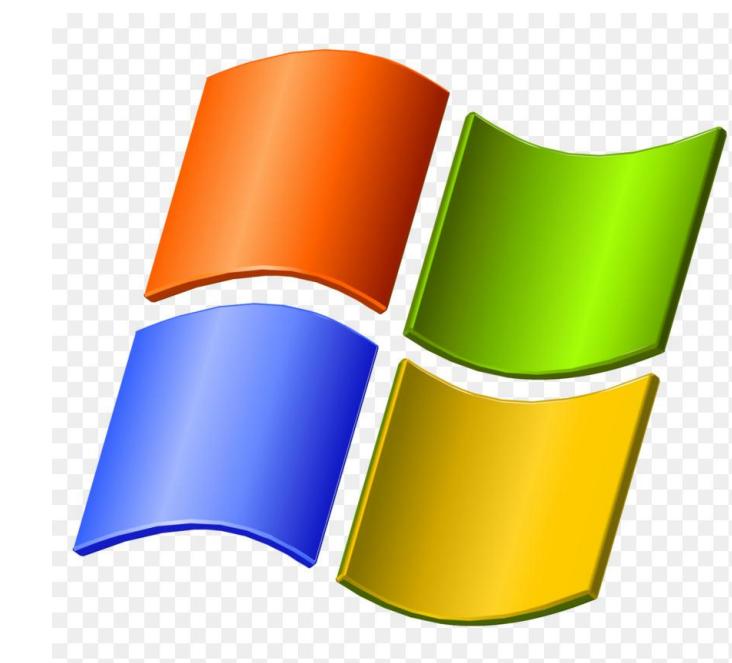
3 Main Kernels

Linux : developed by Linus Torvalds

Windows : developed by Microsoft

BSD : Berkeley-Software-Distribution

Yes, UC-Berkeley.



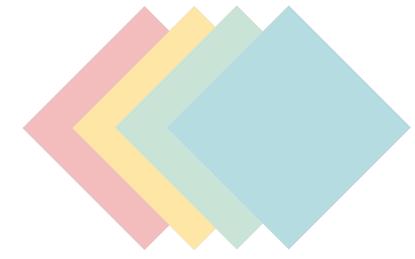


What we will be doing then?

We will be learning how to use the Shell! Transferable knowledge that you can use on most systems with very little change.

A terminal is the window you use to interact with, the **shell** is the **interpreter** the computer uses to take in user input, **interpret** what you want, execute the proper commands, and give you the output. Repeat until exit is called.

What you will learn, you can use on Ubuntu, CentOS, MacOS, Fedora, Arch, Windows, ... basically any system that you can put Bash on.



Overview

Movement and control in the CLI

Filesystem where typical stuff goes

System monitoring (featuring logs!)

Confused? Me too, so don't forgot to RTFM when you forget!

Also, keep track of what has been done and what has not. If you get lost or distracted go back to the list.



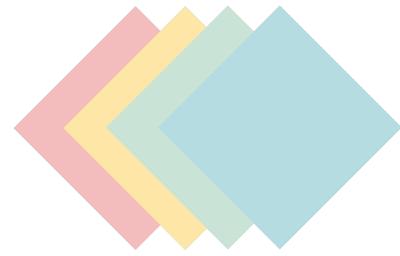
Commands

ls, cd, pwd, whoami, cat, echo, touch, file, grep, locate, which
top, ps, lsof, netstat, ifconfig, ping, kill, w, ss, ip addr
man

lsattr, chattr, (Not on all systems)

chmod

su, sudo



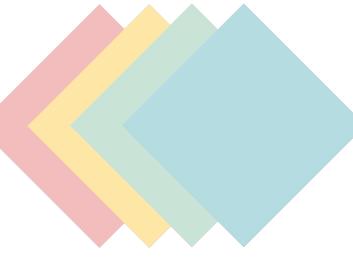
Great way to gather or view lots of information in a quick manner.

Through the terminal, you have lots of control over the machine through commands rather than clicking through a GUI.

Often a lot faster than going through the GUI.

Also you look like a **133t h4ck3r**

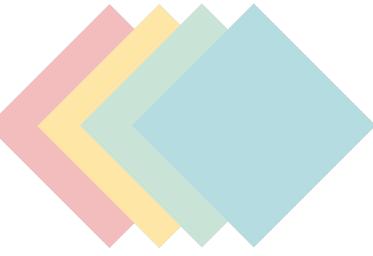




File System (the ones we talk about are here)

```
● /  
○ bin  
○ boot  
○ dev  
○ etc  
○ home  
○ proc  
○ usr  
○ sbin  
○ tmp  
○ var
```

- **bin holds binaries to use on the system**
- **boot holds the files for booting**
- **dev is where devices are**
- **etc is for configuration**
- **home is where users are**
- **proc are where currently running things are**
- **usr is for read-only data that is used globally**
- **sbin is like bin but the s is for system**
- **tmp is for temporary things**
- **var is for “variable” as in “variable in size” so mainly log files.**



NOTES

Remember those quotes!

- You don't have to be an expert, just know enough to do a good job
- There is nothing wrong with not knowing, there is something wrong with not trying

Also: ***IT IS ALWAYS OKAY TO ASK QUESTIONS!***



Demo Time :)

Quiz Time!

- What is /proc for? /etc? /var/log? /dev? /bin? /sbin?
- How do you find what processes are running?
- What is the difference between su and sudo?
- What do you do if you get lost, don't know, or forget?
- How do I see where what directory I am in?

Thanks!

- More resources
- <https://ucrcyber.org>
- <https://ucrcyber.slack.com>
- <https://bash.cyberciti.biz/>
- <https://overthewire.org/wargames/bandit/>
- Download Oracle VirtualBox + Ubuntu image
- Just play around!

Thanks for coming!



slides will be posted on facebook and in
slack!