Final Projects

Sketchy, Pacman, Othello & Indy

What are the CS15 final projects?

- Final chance to show off and develop your Object-Oriented Programming skills with a large individual program!
- 25% of your final grade
- Like all other projects, you ***must*** meet Minimum Functionality on the Final Project to pass the course

Logistics

- **All final projects will be completed individually**
- There are 4 Final Project options for you to choose from
- We've divided our TA staff among the projects; each project will have their own TA hours schedule
- Starting early is CRUCIAL! The average student reports ~40-50 hours
- You **cannot** use late days on this assignment; if you submit past the on-time handin, you will get an 8% deduction

Timeline

- Today, November 16th……FPs released
- Saturday, November 18th @ 1PM ET……Virtual FP Help Sessions
- Saturday, November 18th @ 11:59PM ET……FP Declaration Form due
- Sunday, December 3rd, @ 10:00PM ET……Code checkpoint due
  - Must come to Conceptual Hours to be checked off for your FP-specific code checkpoint
- Sunday, December 10th @ 11:59PM ET……Early handin deadline
- Tuesday, December 12th @ 11:59PM ET……On-time handin deadline
- Thursday, December 14th @ 5PM ET……Late handin deadline
  - the late deadline should only be used if you need to meet MF: You will lose -8% of your grade if you submit on the late deadline, you may NOT use late days for the final project
  - If you haven't submitted anything by 5PM on Dec 14th, you will NC the course

Final Project Options

- Sketchy – Graphical editing program
- Othello – Human and AI Othello board game simulation
- Pacman – Classic Pacman arcade game
- Indy – DIY Final Project

"Dumping on other projects is key. They have to be vicious." -avd

Let the roasts commence!

VISA-core

Couldn't get in?	make it yourself!
Missing MS paint?	make it yourself!
RISD degree?	make it yourself!

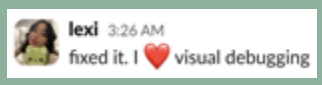
Unleash your inner artist!

Ad… Photoshop

Sketchy

Why Sketchy?

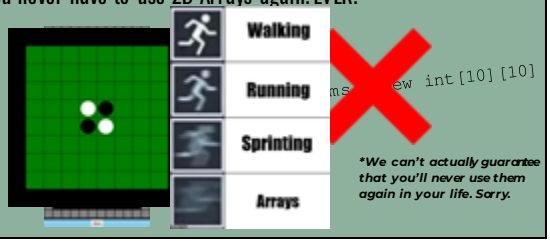
Easy! to test!



You want to waste time learning how to PLAY?

Why Sketchy?

You never have to use 2D Arrays again. EVER.*



*We can't actually guarantee that you'll never use them again in your life. Sorry.

Why

Why Sketchy?

It's Andy's Favorite FP!

source : Man invented computer graphics, you're saying he won't love painting with a computer?

The Made in Sketchy Gallery

👎Indy?👎

😢Pacman?😭

2d arrays? You still on that? boooo

BFS??? more like **B**ar**F** **S**ounds..it's not even real AI

Ghosts? Halloween was last month - past tense

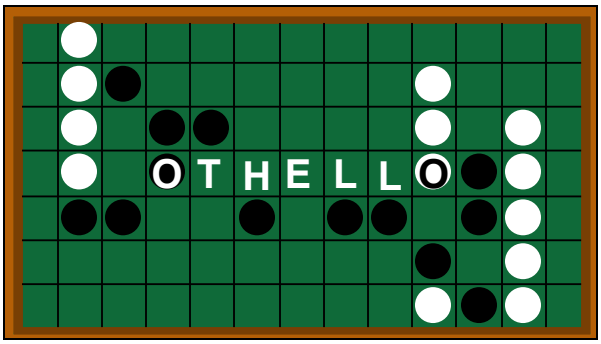
Where's the originality? The creativity?

sarah o 11:03 PM
"I understand drawing apps on a deep and fundamental level" - lexi
sarah o

PACK IT UP MAN
sidechat

Othello: It's a real tragedy
Raise your hand if you know what
Code it? Gonna have to learn how
adam 12:31 PM
Visual Hole. 4th gen flop. No slay
Brown · 11h
if there one thing cs15 is good for, it's ruining my favorite games
15
sidechat

Demo

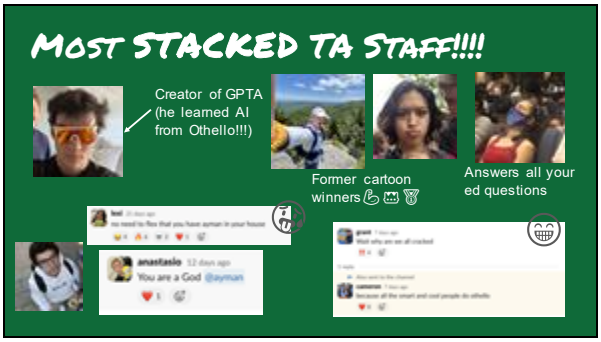


Some info

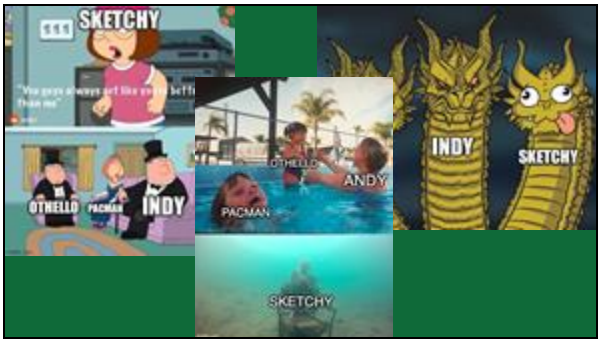
- Othello is a two-player strategy board game also known as Reversi
- Create your own multi-level Artificial Intelligence (AI) player that can play a human player or another AI
- Can play the game with oreos

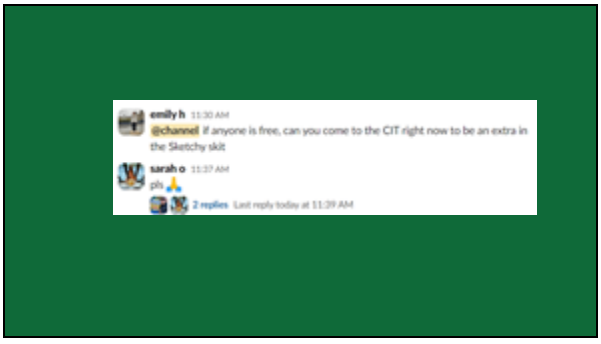
Roast

OTHELLO


MOST STACKED TA STAFF!!!!
Creator of GPTA (he learned AI from Othello!!!)
Former cartoon winners
Answers all your ed questions
anastasio 12 days ago
You are a God @ayman

SKETCHY


SKETCHY
OTHELLO
PACMAN
INDY
OTHELLO
ANDY
PACMAN
INDY
SKETCHY
SKETCHY


emily h 11:30 AM
@channel if anyone is free, can you come to the CIT right now to be an extra in the Sketchy skit
sarah o 11:37 AM
pls 🙏
2 replies Last reply today at 11:39 AM

STOP HE'S ALREADY DEAD
SKETCHY
any and all are welcome, we accept people from pacman, othello, and even sketchy

SKETCHY 😂	OTHELLO
- Laughable - bffr	- COOL - NOT UGLY - IMAGINE SHOWING YOUR FRIENDS BACK HOME AI YOU PROGRAMMED – VS IMAGINE SHOWING THEM SKETCHY😷

PACMAN 😢

I'M GONNA
DO PACMAN!

1UP
00
HIGH SCORE
16440

UGLY

Pacman 😢

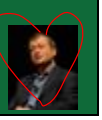
- That debugging line…
- Ugly
- Lame
- Boring
- BFS (fake AI)

Hates andy 😭😫

OTHELLO

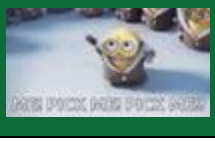
- YOU'LL BE HOME BEFORE THE QUEUE ENDS
- SEXY
- FUN
- HIGHEST GRADE AVG 👀
- REAL AI

Loves andy 😍♡🔥



3: INDY 💀

imagine

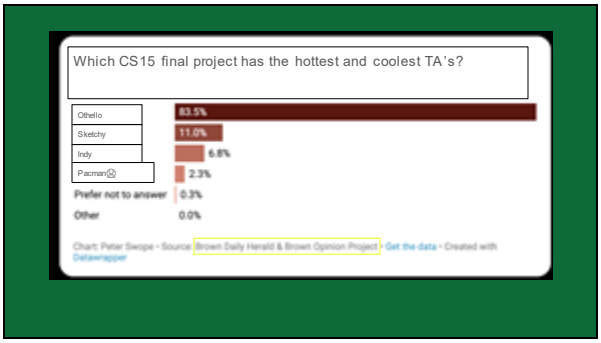


The indy tas over thanksgiving break, 2022

Gavin pondering his life choices after choosing Indy

Anastasio searching for Indy TAs

Indy 💀	OTHELLO 💪
- That project proposal...😭 - hard - Why would you do this	- NO PROJECT PROPOSAL - LESS THINKING - WILL NOT MAKE YOUR LIFE HELL (PROBABLY) - MORE FUN - IT'S LIT🔥

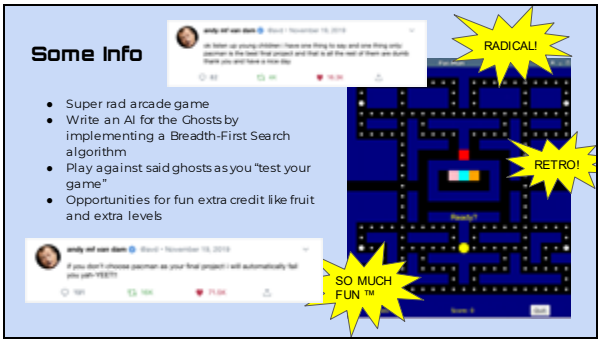

Which CS15 final project has the hottest and coolest TA's?
Othello
Sketchy
Indy
Pacman
Prefer not to answer
Other
83.5%
11.0%
6.8%
2.3%
0.3%
0.0%
Chart: Peter Swope • Source: Brown Daily Herald & Brown Opinion Project • Get the data • Created with Datawrapper

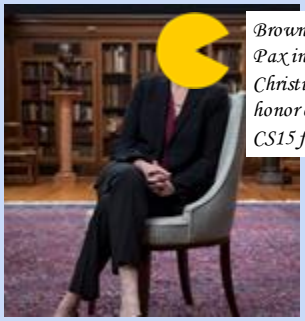
CONCLUSION:
HOT PEOPLE DO OTHELLO

Demo!!

Some Info

- Super rad arcade game
- Write an AI for the Ghosts by implementing a Breadth-First Search algorithm
- Play against said ghosts as you "test your game"
- Opportunities for fun extra credit like fruit and extra levels

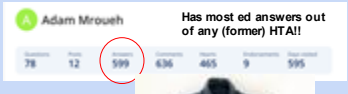




Brown Trivia 69: The Pax in CPax stands for Christina Paxman in honor of her favorite CS15 final project

Top Reasons to Do Pacman

We Got Adam



Has most ed answers out of any (former) HTA!!

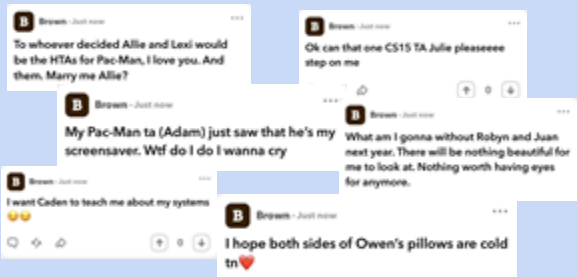
You get to spend time w ith Adam - the only TA w ith a Morgan Stanley Vest ;)))

We Have 2/3 STAs

(stands for smartest TAs)

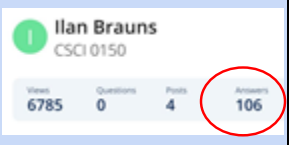
Source: 2021 skits

...and all the other Sexiest TAs

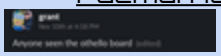


Look at this duo

And Ilan with over 100 ed answers



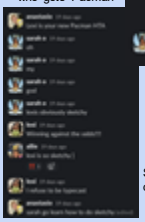
Pacman is actually relevant

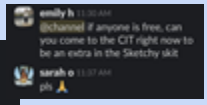


Proof that no one cares about the other projects

Look at the Pacman stats though ;)))

HTAs fighting over who gets Pacman

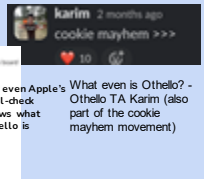




Sketchy TAs had to beg the Slack for extras…pathetic

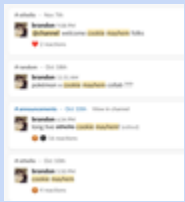
Sketchy's own HTA didn't want it

Pacman is superior to Othello



Not even Apple's spell-check knows what Othello is

What even is Othello? - Othello TA Karim (also part of the cookie mayhem movement)



Even the TAs ~~hate~~ dislike Othello.

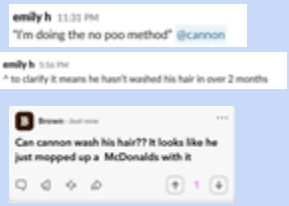
Othello TAs trying to rebrand it as "cookie mayhem" to make it sound less boring

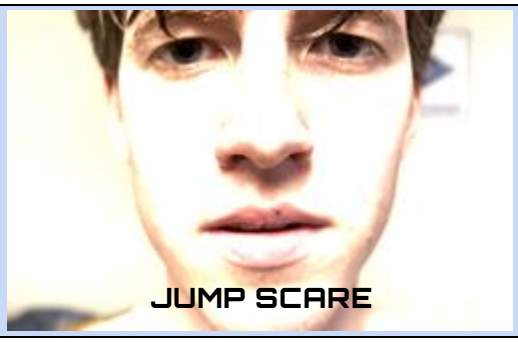
Othello TAs are dirty

hello??

Also rumor has it Cannon doesn't believe in washing his hands/using hand sanitizer…?

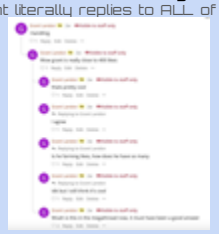
Cannon doesn't ev en wash his hair…

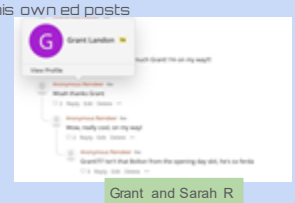




Othello TAs are all try-hards

Grant literally replies to ALL of his own ed posts

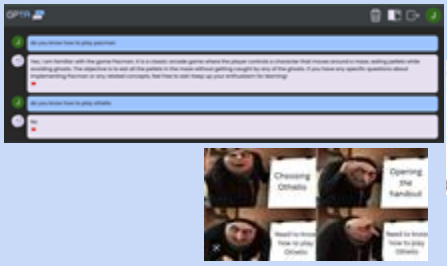




Grant and Sarah R pressure their students??? NEVER okay.

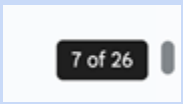
GRANT AND SARAH ARE THE BEST SECTION TA'S!!! (Definitely wasn't pressured into doing this) #604

Does anyone even know how to play Othello??



(4/5) Pacman is superior to Sketchy

Sketchy is all about pretty pictures
so we took some relevant screenshots:

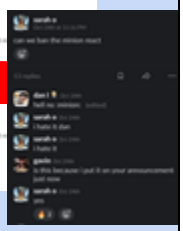


The Sketchy handout is 26 pages.. Pacman's is a respectable 19 <3

TV in Page-Rob telling you not to open any emails from Sketchy

What's Sarah's (Sketchy HTA) biggest weakness?
Gmail or fun? We'll let you decide for yourselves

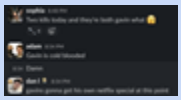
Good luck getting any help from Sketchy TAs. Doesn't look like they have email figured out yet



Can we get an f in the chat for the minion react?

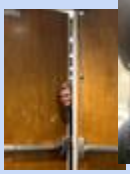
(5/5) Pacman is superior to Indy

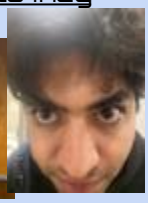
Indy? More like IntheClTallthetime



Indy TAs are ruthless… see for yourself

Anastasio after convincing you Indy is a good idea then leaving you for the wolves (his average response time on Ed is 1.2 days)





Not to mention their god complexes

"i hAvE pRiOr cOdiNg eXpErIeNcE"

In case you need more reasons not to do Indy...

Anastasio. Anastasio is the reason you should not do Indy.

Demo

Indy

(feat. Anastasio, Gavin, Morgane, & David)

Some info

- You design your own project!! ✨
- Requirements:
  - Appropriate length (e.g., not Pong)
  - Uses polymorphism
  - Uses a new data structure
  - Uses an algorithm of moderate complexity (at least as complicated as Tetris' line clearing)
  - Originality
- Possibilities are endless! ∞

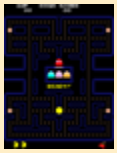
Top Reasons to do Indy (a)

You don't have to go to conceptual hours ever again

XXXXX

us soon?

Top Reasons to do Indy (b)



1980

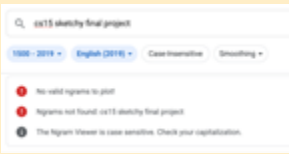
1883

Never made it to market

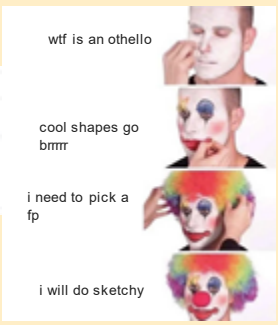
importa sed)

trend since 1883 :/ (othello dropped)

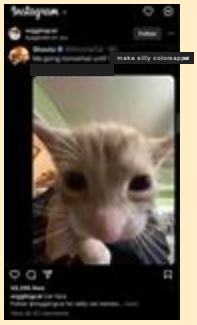
more trends :(



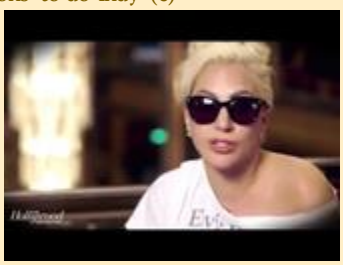
we got gta 6 before sketchy



average sketchy student



Top Reasons to do Indy (c)



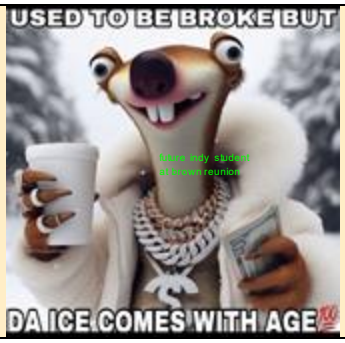
Top Reasons to do Indy (d)

Guaranteed MOSS score of 0%

Top Reasons to do Indy (e)

You can put Indy in your brand new computer science portfolio (its 100% yours!)

typical pacman student when they need a portfolio for their TikTok internship :(

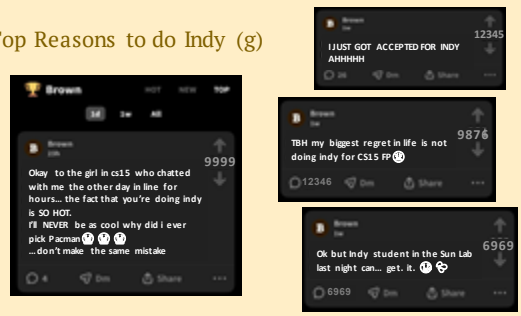


Top Reasons to do Indy (f)

Indy is only one letter away from **Andy**

(and only 3 letters from daddy ☹)

Top Reasons to do Indy (g)



Top Reasons to do Indy (h)

Pacman Handout? 1 of 18

Sketchy Handout? 1 of 26

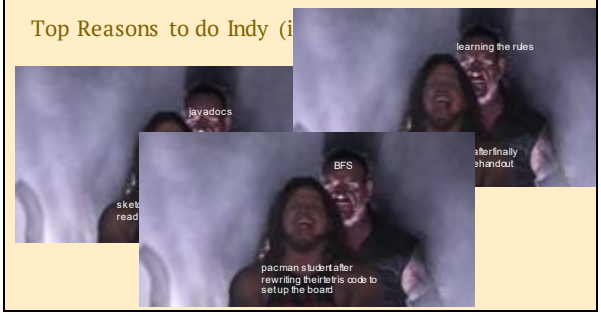
Othello Handout? 1 of 14

But Othello has AN EXTRA HANDOUT

supplementary AI handout 1 of 7

The Indy handout is only 7 pages 😈

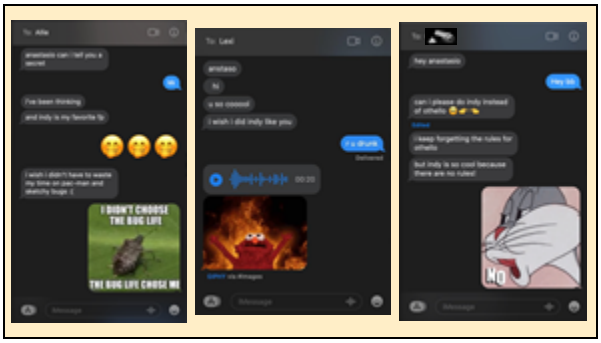
Top Reasons to do Indy (i



Top Reasons to do Indy (j)

the other HTAs regret not doing indy

we have proof



Top Reasons to do Indy (k)

PacMan:
maximum score is only 3,333,360 points :(

Othello:
you lose to AI 💀

Sketchy:
you lost the second you picked sketchy

Indy:

Logistics

Just a reminder that you do need to meet all the requirements listed in the handout to be approved to do Indy!

BUT! Don't worry––we will help you meet the requirements if you are stuck or need to brainstorm together!

We want you to be as creative as possible while still meeting the requirements, and the Indy team is here to support! 😊

Demos

Very Important Indy Information

- If you're interested in doing Indy, you should
  - Develop an initial plan for yours soon.
  - If you have any questions, you can email the Indy TAs at: aortiz18@cs.brown.edu, gdhanda@cs.brown.edu, mpizigo@cs.brown.edu, and dolan_yi@cs.brown.edu
  - Find a "backup" Final Project that you'll do in case your project doesn't get approved.
- **Send us a project proposal by THIS SATURDAY 11:59PM EDT**
- Keep in mind that Indy is a much larger time commitment than the other final projects
  - You'll be responsible for creating your own program specs and design (other projects already have this planned out).
  - There's a lot of freedom in this assignment—be comfortable with the lack of structure!
- It's a lot of work, but a lot of fun!

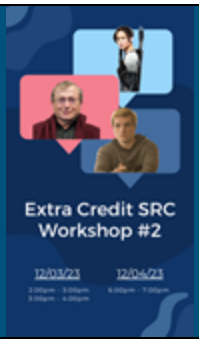
Announcements

Timeline

- Today, November 16th……FPs released
- Saturday, November 18th @ 1PM ET……Virtual FP Help Sessions
- Saturday, November 18th @ 11:59PM ET……FP Declaration Form due
- Sunday, December 3rd, @ 10:00PM ET……Code checkpoint due
  - Must come to Conceptual Hours to be checked off for your FP-specific code checkpoint
- Sunday, December 10th @ 11:59PM ET……Early handin deadline
- Tuesday, December 12th @ 11:59PM ET……On-time handin deadline
- Thursday, December 14th @ 5PM ET……Late handin deadline
  - the late deadline should only be used if you need to meet MF. You will lose -8% of your grade if you submit on the late deadline, you may NOT use late days for the final project
  - **If you haven't submitted anything by 5PM on Dec 14th, you will NC the course**

Announcements (1/2)

- If you're interested in Indy:
  - Submit your proposal to the Indy TAs using the form in the handout by Saturday at 11:59PM
- ***Everyone, regardless of which project you want to do, must fill out the FP declaration form by Saturday at 11:59PM.***
  - This form is binding. If you want to switch afterward, you must email the HTAs.
- Come to HTA hours tomorrow (Friday) 3-4 PM in CIT 210 or on Zoom if you want to talk about which Final Project to do!

Announcements (2/2)

- NO TA hours today or from Monday, November 20 to Sunday Nov 27th
- TA Hours WILL be held from Friday, Nov 17th to Sunday, Nov 19th
- Monday, Nov 28th after Thanksgiving break hours will resume
  - Feel free to post on Ed over Thanksgiving break, although TA response time may be a bit slower
- No lecture on Tuesday!
- Pick up CS15 T-shirts after lecture today!
- Have a great break!