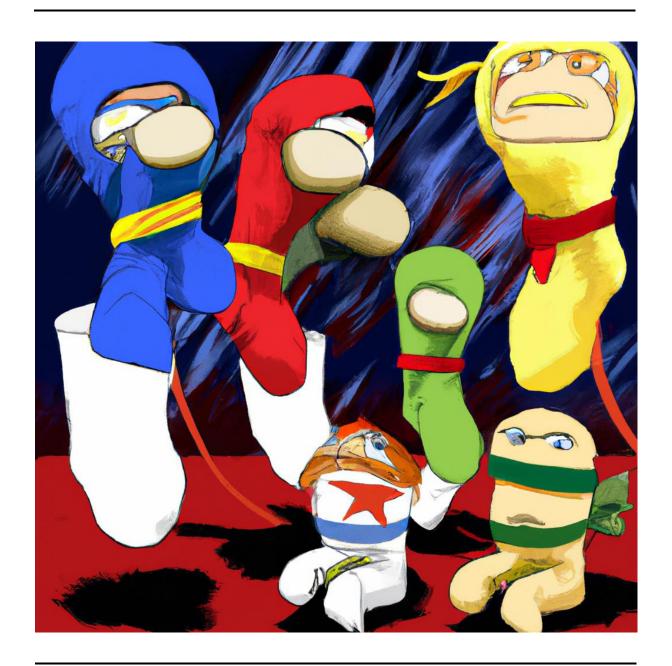
Eleanor Slade: 103595981

Rubie Stannard: 103982732

Elias Taylor: 102123860



TEAM SOCK FIGHTER

Wednesday 8:30 am - 11:30 am

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Production Team Skill Set

Skill	Eleanor Slade	Elias Taylor	Rubie Stannard
Coding	High	Medium	Medium
Programming	High	Medium	Medium
2D Assets	Low	Low	High
2D Animation	Low	Low	Medium
3D Assets	Medium	Low	Medium
3D Animation	Low	Low	Medium
Sound/Music	Low	Low	Medium
Management	High	High	High
Coordinating	Medium	High	High

Interest	Eleanor Slade	Elias Taylor	Rubie Stannard
Coding	High	High	Medium
Programming	High	High	Medium
2D Assets	Low	Low	High
2D Animation	Low	Low	Medium
3D Assets	Low	Medium	Medium
3D Animation	Low	Medium	Medium
Sound/Music	Low	Low	High
Management	Medium	High	High
Coordinating	Medium	High	High

Production Project Tools

Communication and Coordination Tools

The top three communication platforms that can be used by our team to communicate are Slack, Discord, and our student email. We chose these three options because they provide a wide variety of communication methods that suit the various needs of the group at different times. Slack and Discord both provide instant messaging that is useful depending on the devices we are using, while emails provide slower but more consistent communication.

Some pros, cons, and quality of life considerations are listed below.

Platform	Pros	Cons	Quality of Life
Slack	We've been using it in the subject.Good security.Easy to share files.	Has a high CPU usage.High battery consumption.	- You can change the notification sound.
Discord	Groups can have video calls.Navigation is simple.Documents are easy to share.	It's not built for phones.No organisation tools.You can make too many channels.	- Everyone seems to have Discord. - Built for gamers.
Student email	It's direct.It's easy to navigate.Sending smaller files is easy.	- Slow time frame compared to instant messengers Less focus on user experience.	- You can ensure you've tried all ways of contact. - Emails can be forwarded to each other.

Trello Alternatives/Competitors

Two alternatives to Trello are TeamGantt and Notion. In contrast to Trello, Notion has a lot of similar features, such as task management and project tracking, whereas TeamGantt doesn't share any similarities as it seems to be mainly for tracking projects.

While TeamGantt provides helpful project planning tools, and Notion is useful for managing a large scale of project information, these tools are unsuitable for our needs in developing this game. Gantt charts are more useful for longer timeline management, while our project is quite short, and our game is quite simple, making the large-scale information storage of Notion unhelpful. For our purposes, Trello's boards are incredibly useful for managing the development process, highlighting the stages of development as they are being worked on.

Some key features and limitations for each platform have been listed below.

Platform	Key Features	Limitations
TeamGantt	You can track the progress of a project with a Gantt chart timeline.Free to use.	Allows users to have one project running at a time.Each chart allows a maximum of three people.

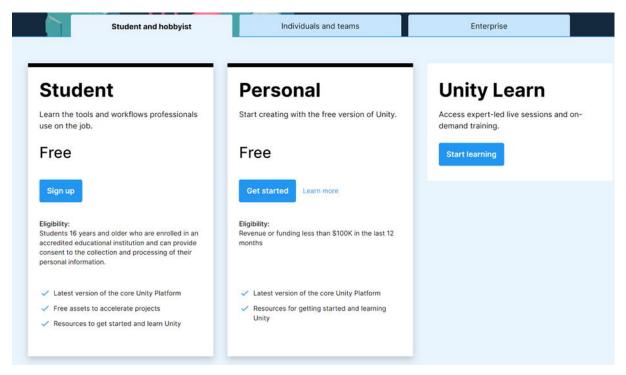
Notion	Task management.Project tracking.To do lists.Wikipedia style information organisation.	Free, but with paid features.Does not function on university computers
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"Version Control" (eg. git) Tools

The version control provider we'll be using for our project is BitBucket, and the git client software being used will be SourceTree. The team has decided to use BitBucket and SourceTree because we already have some experience with these tools since they've been used for the past 6 weeks in this unit.

Alternative Game Engine Considerations

The game engine we plan to use to create this game is Unity as we have some experience since we've been using this for the unit. The game engine alternative we'd consider using would be Unreal Engine. Unreal Engine is currently an industry giant with a lot of powerful tools for game development, however most of those tools are for development of 3D games, which our game won't be making use of. Like Unity at the student and personal level, Unreal Engine is free to use, but is more capable of handling the development of 2D games.



Some more information about Unity can be found at: https://unity.com/pricing#plans-student-and-hobbyist

Game Pitch



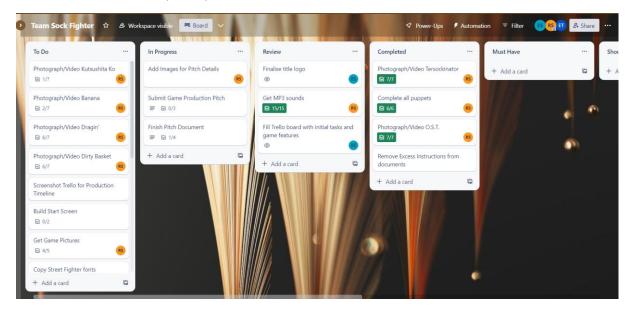
Our game, Sock Fighter, is based on fighting games such as *Street Fighter* and *Mortal Kombat*. Sock Fighter uses a light form of the fighting game genre of video games. While many modern forms of this game have open arenas to manoeuvre, Sock Fighter plays more like the board game *Rock 'Em Sock 'Em Robots*, with the characters relatively immobile, and having to carefully time their attacks and blocks. Each player selects a character avatar, here in the form of characterised sock puppets, and attempts to defeat their opponent. Each character has a different suite of attacks and abilities, so players can learn how best to play their favourite characters. For instance the character Dragin', a dragon sock puppet, has a dangerous fire breath they can unleash on their foes.

During combat the characters trade blows and take damage, represented by a health bar shown at the top of the screen. The screen also shows a power bar, which fills up as the character successfully lands blows against their enemy or successfully blocks enemy attacks and once filled allows them to unleash a powerful special attack unique to each sock puppet. The lose state for Sock Fighter is a character's health reaching 0 first, who will then be treated to the winner's winning caption.



Production Timeline

- 1. Create sock puppets
- 2. Create videos of each sock puppet's various 'animations'
- 3. Convert sock puppet videos into game sprites
- 4. Create UI elements
- 5. Programming
 - a. UI navigation
 - b. combat mechanics
 - i. health
 - ii. attacking
 - iii. defeat mechanics
 - 1. winning caption reveal
 - 2. victory music
 - 3. game reset to character selection
 - iv. timer implementation
 - 1. on timeout effects eg. compare health to determine winner/ties
 - v. blocking
 - vi. special power use
 - vii. special power bar increase



Game Features - Characters

Dirty Basket

- Dirt marks
- Beige sock
- Bad breath weapon

Move	Key Bind		Sound
Punch	A/Left arrow		punch.mp3
Kick	S/Down arrow		kick.mp3
Block	D/Right arrow		block.mp3
Special move: Stink breath (green particles)	W/Up arrow		dirty_basket_special_attack. mp3
Winning caption: Does anyon that?	e else smell	dirty_basket_v	vinning_caption.mp3

Kutsushita Ko

- Yellow buns
- Fake boobas
- White sock
- Angular eyes?

Move	Key Bind		Sound
Punch	A/Left arrow		punch.mp3
Kick	S/Down arrow		kick.mp3
Block	D/Right arrow		block.mp3
Special move: Booba bounce (chest thrust)	W/Up arrow		kutsushita_ko_special_attac k.mp3
Winning caption: Nyaaaa!	kutsushita_ko_v		_winning_caption.mp3

O.S.T. (Odd Sock Terrestrial)

- Green pipe cleaner antennas
- Grey sock
- Three eyes
- Blue pom poms on top of the antennas

Move	Key Bind		Sound
Punch	A/Left arrow		punch.mp3
Kick	S/Down arrow		kick.mp3
Block	D/Right arrow		block.mp3
Special move: Très lasers (three lasers shoot)	W/Up arrow		ost_special_move.mp3
Winning caption: Anally probe	nning caption: Anally probed!		aption.mp3

Dragin'

- Wings
- Horns
- Red sock
- Dragon fins
- Fire breathing particle effect

Move	Key Bind		Sound
Punch	A/Left arrow		punch.mp3
Kick	S/Down arrow		kick.mp3
Block	D/Right arrow		block.mp3
Special move: Flame roar (open mouth roar)	W/Up arrow		dragin_special_move.mp3
Winning caption: You're a girl dragon.		dragin_winnin	g_caption.mp3

Banana

- Banana hat
- Banana wings
- Beige sock

Move	Key Bind	Sound
Punch	A/Left arrow	punch.mp3
Kick	S/Down arrow	kick.mp3

Block	D/Right arrow		block.mp3
Special move: Squish (banana slides down)	W/Up arrow		banana_special_move.mp3
Winning caption: Slip on this!	banana_winnir		ng_caption.mp3

Tersockinator

- One red eye
- Half metal face
- Beige sock
- Brown hair
- Black felt jacket

Move	Key Bind		Sound
Punch	A/Left arrow		punch.mp3
Kick	S/Down arrow		kick.mp3
Block	D/Right arrow		block.mp3
Special move: Second Amendment (gun shows up)	W/Up arrow		tersockinator_special_move. mp3
Winning caption: Hasta la vista.		tersockinator_winning_caption.mp3	

Game Features - UI

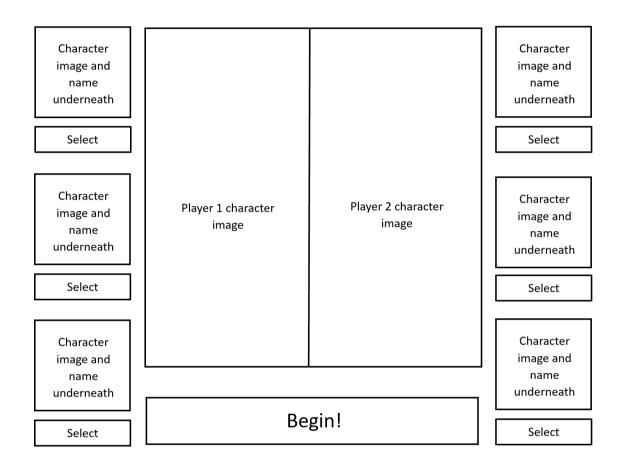
Main menu screen

- Start game button
 - o To Character Selection screen
- Exit game button

Character Selection screen

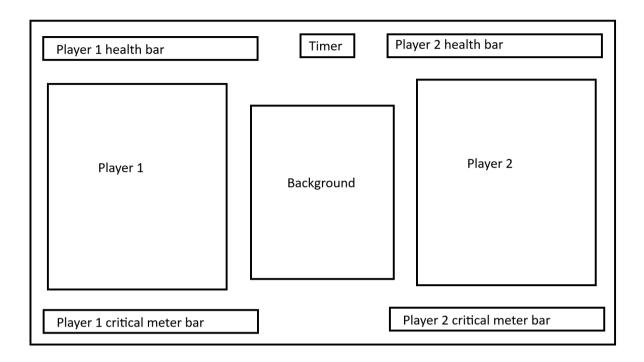
- "Choose your character"
- Display of 'profile pic' of each character
- Move through options
 - o WASD for player 1
 - o Arrows for player 2
 - Select profile (attack 1 btn)
 - o [alt: players pick one at a time]
- Cancel button
 - De-selects all selected characters
 - o IF no selected characters:

- Change text to 'Back'
- To Main Menu screen
- Start Game button
 - Saves selected characters
 - To Game Play screen



Game Play screen

- Load one of a number of random background images
- Set initial character values (health, power bars, etc.)
- Spawn chosen player characters in control of selected player
- 60 second timer
 - Alot of these games have timers to get rid of the potential for games getting bogged down
 - If timer gets to 0, player with most health wins round
 - Has the ability to do the whole 'best of 3' schtick
- Display in-game UI
 - o Character name
 - Health bar
 - Power bar? (for spesh attack)
- *Players fight*
 - Gameplay Loop



Game Features - Controls

These are universal regardless of played character, however there are Player 1 and Player 2 alternatives for each set of controls.

just popping in some placeholder keys for the controls, please comment any suggested edits for them

Move	Controls
Attack 1 (Punch)	A Left-Arrow
Attack 2 (Kick)	S Down-Arrow
Block	D Right-Arrow
Special move	W Up-Arrow
Player character selection	Space Enter
Scroll through character selection	

Game Features - Combat

Winning Caption

Team Sock Fighter Information

Eleanor Slade Coded the character selection scene

Coded the start scene Coded the game over scene

Coded and implemented menu navigation

Rubie Stannard Made the sock puppets

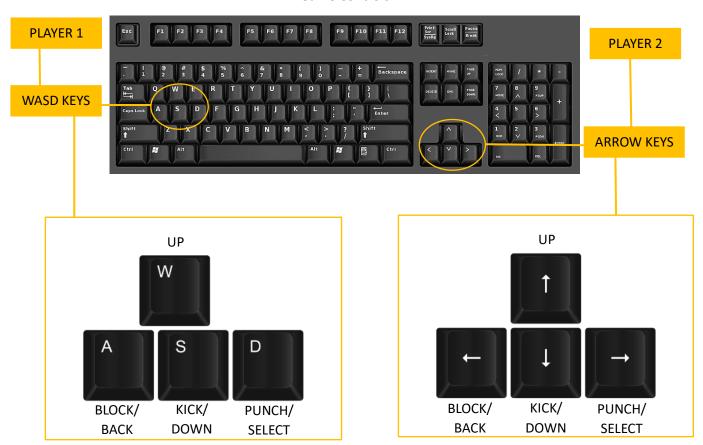
Recorded videos of the sock puppets Sourced the background images Sourced, wrote, and styled the text Sourced and converted the sound effects

Elias Taylor Coded and implemented the character controls

Coded the combat mechanisms Coded the gameplay loop Coded the health bar Implemented the audio

Implemented the character animation

Game Controls



List of Tools and Services

SourceTree and Bitbucket were used to share the Unity project.

Google Drive was used to share and store the documents, images, MP3's, and anything related to the project.

Discord was used to communicate with the team members when changes were made to the project and meetings were organised.

Photoshop was used to style the texts, resize all of the images, make the sock picture backgrounds transparent, make the button icons, and make the health bars.

Trello was used for planning the project tasks and assigning them to members.

Unity was used as the platform of creation.

Visual Studio Code was used to code the in-game scripts.

List of Resources

The DaFont font "SSF4 Abuket" by ArcJavier was used for the character names, winning captions, K.O. and Fight text: https://www.dafont.com/ssf4-abuket.font

The DaFont font "Martyric" by Mans Greback was used for the Sock Fighter title: https://www.dafont.com/martyric.font?text=Sock+Fighter&psize=I

The Flickr image "Melbourne Hosier Lane Street Art" by capture the lens was used for Background 1: https://www.flickr.com/photos/capturethelens/16881799565

The Wikipedia image "Ringwood East Railway Station" by Alex1991 was used for Background 3: https://en.wikipedia.org/wiki/Ringwood East railway station

The Wallpaper* image "Eastland Shopping Centre" was used for Background 4: https://www.wallpaper.com/architecture/community-and-connectivity-at-the-heart-of-eastland-shopping-centre-in-melbourne

The YouTube video "Super Punch (Sound Effect)" by BlueSpeedy was used for the punch sound effect: https://www.youtube.com/watch?v=GZCERKiRBiQ

The YouTube video "Kick - Free Sound Effect" by Free Sound Effects was used for the kick sound effect: https://www.youtube.com/watch?v=HWS6xU6eHgI

The YouTube video "Elden Ring | Guard Counter [Sound Effect]" by Bond Factory was used for the block sound effect:

https://www.youtube.com/watch?v=TUd4uLSavDU&pp=ygUdZWxkZW4gcmluZyBibG9jayBzb3VuZCBlZmZlY3Q%3D

The YouTube video "ULTRA Street Fighter IV - Main Menu Theme" by SG – SaitoGaming was used for the fight music: https://www.youtube.com/watch?v=e83BmHq93vU&t=14s

The YouTube video "Round 1 FIGHT!" by Street Fighter II Feb 1991 was used for the fight start sound effect: https://www.youtube.com/watch?v=v993ci5Sm5Q

The YouTube video "Results Screen / Victory Music -- Street Fighter IV Soundtrack" by GekkouKitsune was used for the main menu music: https://www.youtube.com/watch?v=v8Oa9UIZzME