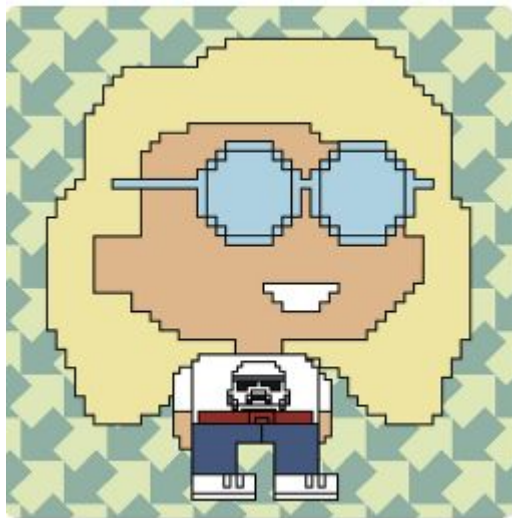


ROCK



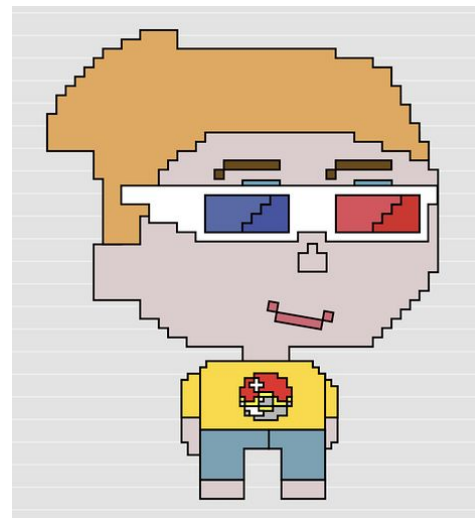
Jermaine

PAPER



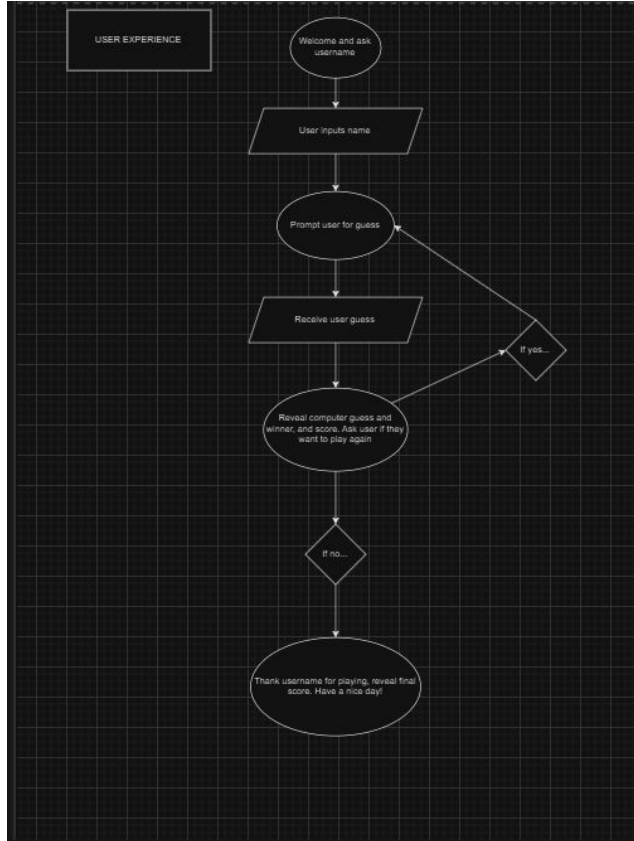
Luke

SCISSORS

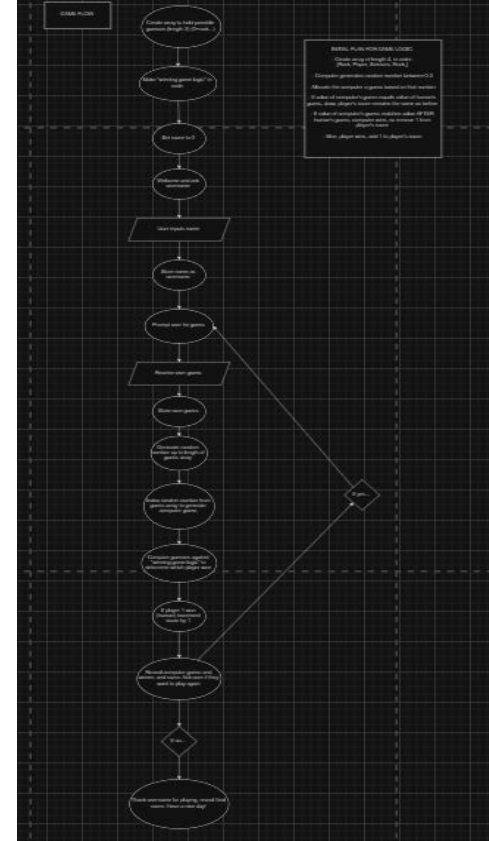


Liz

User experience flowchart



“Under the hood” flowchart





SchoolOfCode / week-2-hackathon-rock-paper-scissors-room12-wk2

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Milestones

1 Open ✓ 0 Closed

MVP 1

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Our plan for the game logic

Our plan for the game logic

```
["rock", "paper", "scissors", "rock"]
```

Our plan for the game logic

If we repeat the first element at the end, then each element beats the previous.

So if you have the $i+1$ th element vs opponent's i th, you've won.



```
[ "rock", "paper", "scissors", "rock" ]
```

Our plan for the game logic

If we repeat the first element at the end, then each element beats the previous.

So if you have the $i+1$ th element vs opponent's i th, you've won.



```
[ "rock", "paper", "scissors", "rock" ]
```



Range for setting computer guess.
Don't let it pick the last element!

The bit of code
that made us feel like this




```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

```
["rock", "paper", "scissors", "rock"]
```

```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 ) )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

```
["rock", "paper", "scissors", "rock"]
```

Player

```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 ) )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

["rock", "paper", "scissors", "rock"]

Player

Computer

```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

["rock", "paper", "scissors", "rock"]

Player

1

Computer

2

```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

["rock", "paper", "scissors", "rock"]

Player

Computer

1 +1 == 2 ?

```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

["rock", "paper", "scissors", "rock"]

Player

Computer

True, so
you lose

1 +1 == 2 ?

Player

Rock

Rock

Rock

Paper

Paper

Paper

Scissors

Scissors

Scissors

Computer

Rock

Paper

Scissors

Rock

Paper

Scissors

Rock

Paper

Scissors

Expected

Draw

Lose

Win

Win

Draw

Lose

Lose

Win

Draw



```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 )  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

["rock", "paper", "scissors", "rock"]

Computer

0

Player

2


```
function getResult(playerMove, computerMove){  
  if(playerMove == computerMove) {  
    return 0 ;  
  }  
  else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 )  
    return -1 ;  
  }  
  else {  
    return 1 ;  
  }  
}
```

["rock", "paper", "scissors", "rock"]

Computer

0

==

Player

2

+1

?

If only we could make

$$3 == 0$$

```
function getResult(playerMove, computerMove){  
    if(playerMove == computerMove) {  
        return 0 ;  
    }  
    else if (moveList.indexOf(computerMove) == (moveList.indexOf(playerMove) + 1 ) % (moveList.length - 1)) {  
        return -1 ;  
    }  
    else {  
        return 1 ;  
    }  
}
```

Our logic made it quite simple to implement the extended version of the game

STEP 1: Add elements to array

```
[ "rock", "paper", "scissors",  
  "spock", "lizard", "rock" ]
```

STEP 2: Add one new losing condition

```
(moveList.indexOf( computerMove ) ==  
(moveList.indexOf( playerMove ) + 3 )  
% (moveList.length - 1))
```

When computer is	When player is	Expected outcome for player	Test passed?
Rock	Rock	Draw	
Rock	Paper	Win	
Rock	Scissors	Loss	
Rock	Lizard	Loss	
Rock	Spock	Win	
Paper	Rock	Loss	
Paper	Paper	Draw	
Paper	Scissors	Win	
Paper	Lizard	Win	
Paper	Spock	Loss	
Scissors	Rock	Win	
Scissors	Paper	Loss	
Scissors	Scissors	Draw	
Scissors	Lizard	Loss	
Scissors	Spock	Win	
Lizard	Rock	Win	
Lizard	Paper	Loss	
Lizard	Scissors	Win	
Lizard	Lizard	Draw	
Lizard	Spock	Loss	
Spock	Rock	Loss	
Spock	Paper	Win	
Spock	Scissors	Loss	
Spock	Lizard	Win	
Spock	Spock	Draw	

***Are you ready
to play?***

Things we've learned

- Some more methods of javascript arrays
 - Eg .at(-1) for accessing last element, indexOf()for getting the first available key back, given the value
 - To generate the random the number we found the below method.
 - `let randomNumber = Math.floor(Math.random() * 3);`
 - `console.log(randomNumber);`
- It's a balancing act between the quick code and the best code
 - It's important to get something that works up and running, but it's also really nice to write code you can extend
- How to keep an eye on our “overplayed strengths”
 - Liz has a tendency to “often take the initiative”, so on Day 2 she consciously stepped back a little
 - Jermaine made sure that he wasn't overpowering.
 - Luke often gets very tunnel visioned on a problem! On day 1, he made sure that he regularly checked what he was doing, and worked with his team

If we had more time...

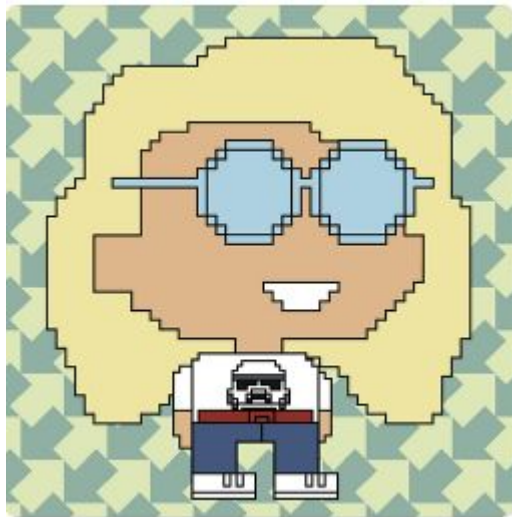
- An array of verbs so that we could display messages “Spock vaporizes Rock!” or “Lizard poisons Spock”
- Make a game for two human players
- If we had another week, adding functionality for a player to input their own extra choices (Dinosaur, fighter jet, etc...), and automatically making those changes to the code to make them work in the game

ROCK



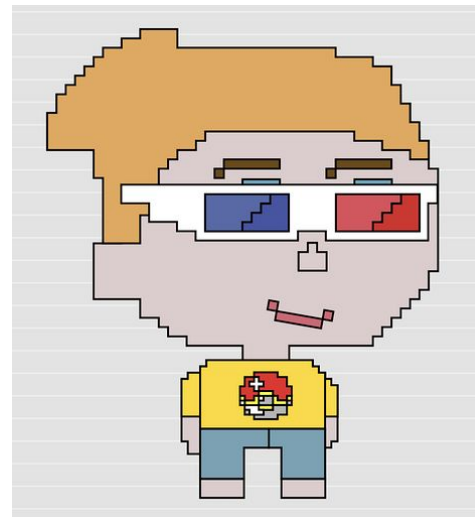
Jermaine

PAPER



Luke

SCISSORS



Liz