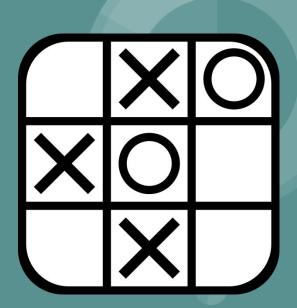
Tic Tac Toe T1A3

By Harry Rogers Woollett

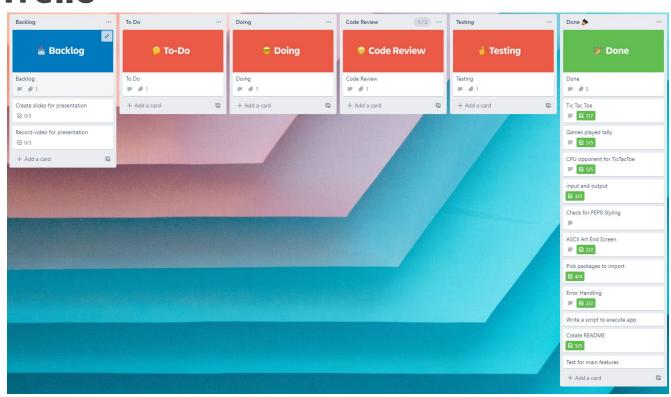


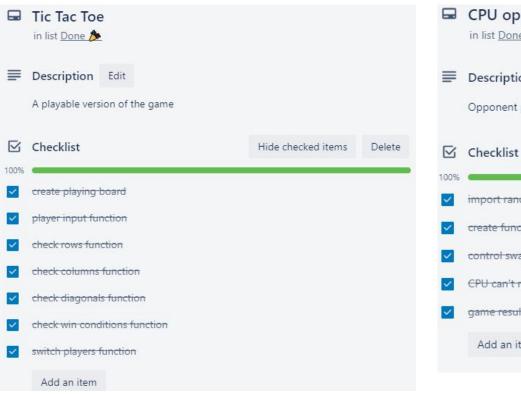
Initial Pitch

- Play board
- 2 players
- Game tally
- End screen with ASCII art



Trello







Description Edit Opponent playing as "O" will compete against the player

Hide checked items

create function for CPU to make random input on board

Delete

import random module

control swaps back to player after each choice

CPU can't repeat inputs on occupied spaces game result check after each input

Add an item

Tic Tac Toe Game

```
# Display the gameboard

def print_board(board):
    """Prints the gameboard.

Args:
    | board (_type_): _description_
    """

print(board[0] + " | " + board[1] + " | " + board[2])
    print("-----")
    print(board[3] + " | " + board[4] + " | " + board[5])
    print("-----")
    print(board[6] + " | " + board[7] + " | " + board[8])
```

```
# Game Running Loop

while game_running:
    print_board(board)
    player_input(board)
    check_win()
    check_draw(board)
    switch_player()
    cpu(board)
    check_win()
    check_draw(board)
```

```
def check row(board):
    """Checks rows of gameboard for win condition.
    Args:
        board (_type_): _description_
    Returns:
        _type_: _description_
    global winner
    if board[0] == board[1] == board[2] and board[1] != "-":
        winner = board[0]
        return True
    elif board[3] == board[4] == board[5] and board[3] != "-":
        winner = board[3]
        return True
    elif board[6] == board[7] == board[8] and board[6] != "-":
        winner = board[6]
        return True
```

Computer Opponent

```
# Computer Opponent

def cpu(board):
    """Generates random inputs for computer opponent

Args:
    board (_type_): _description_
    """

while current_player == "0":
    position = random.randint(0, 8)
    if board[position] == "-":
        board[position] = "0"
        switch_player()
```

Game Tally

```
# print result to tally.txt file
with open('tally.txt', 'a') as f:
    f.write(f"{current_player}, you win! \n")

count = sum(1 for line in open('tally.txt'))
print(f'There have been {count} total games played.')

There have been 2 total games played.
```

```
src >  tally.txt

1  X, you win!
2  X, you win!
3
```

ASCII End Screen & Menu

