



UNO

A'Myah Temple

HOW TO PLAY

- 1 CHOOSE ONE CARD THAT MATCHES THE TOP CARD.
- 2 IF YOU CAN'T DRAW A CARD
- 3 FIRST TO EMPTY THEIR HAND WINS

Overview

Developed a Java-based UNO game using Object-Oriented Programming principles.

The game supports 1 human player and multi AI players.

Includes Number cards (0-9) and Speciality cards (Skip, Draw 2, Draw 4, Wild-Card).

```
Top Card:
Type: Number Color: Blue Number: 2
-----

amyah's Deck:
1: Type: Special Color: Any Effect: WildCard
-----
2: Type: Number Color: Blue Number: 3
-----
3: Type: Number Color: Yellow Number: 0
-----
4: Type: Special Color: Blue Effect: Skip
-----
5: Type: Number Color: Yellow Number: 2
-----
```

Objectives

IMPLEMENT PLAYABLE UNO MECHANICS.
DESIGN AI PLAYERS WITH BASIC DECISION-MAKING.
HANDLE SPECIAL EFFECTS (SKIP, DRAW 2, DRAW 4, WILDCARD)

```
amyah's turn
Pick a card to play (1 to 4)
1
amyah played
Type: Special Color: Any Effect: WildCard
-----

WildCard Chosen! Choose a color:
Red, Green, Blue, or Yellow
Yellow
Color has been changed to: Yellow
Hit enter to end turn
```

Gameplay Logic

Each Player's turn: select or draw card.

AI choose playable card automatically.

Specialty cards trigger effects on next player.

Checks for UNO or winning condition.

```
Top Card:
Type: Special Color: Red Effect: Skip
-----

amyah's Deck:
1: Type: Special Color: Blue Effect: Skip
-----

amyah's turn
Pick a card to play (1 to 1)
1
amyah played
Type: Special Color: Blue Effect: Skip
-----

amyah has won!
BUILD SUCCESSFUL (total time: 2 minutes 11 seconds)
|
```

AI Behavior

**RANDOMLY SELECTS A PLAYABLE CARD FROM HAND.
CHOOSES A RANDOM COLOR WHEN WILDCARD IS PLAYED.
HANDLES SKIPPING, DRAWING FOR THE NEXT PLAYER.**

```
Bob's turn
Bob played:
Type: Special Color: Red Effect: Skip
-----

Steve is skipped
Hit enter to end turn

Steve's turn
Steve has been skipped!
Hit enter to end turn
```

Video Demo

```
run:
Enter your name: amyah
amyah drew card(s)
amyah drew card(s)
amyah drew card(s)
amyah drew card(s)
amyah drew card(s)
amyah drew card(s)
Bob drew card(s)
Bob drew card(s)
Bob drew card(s)
Bob drew card(s)
Bob drew card(s)
Steve drew card(s)
Steve drew card(s)
Steve drew card(s)
Steve drew card(s)
Steve drew card(s)
Top Card:
Type: Number Color: Blue Number: 2
-----
amyah's Deck:
1: Type: Special Color: Any Effect: WildCard
-----
2: Type: Number Color: Blue Number: 3
-----
3: Type: Number Color: Yellow Number: 0
-----
4: Type: Special Color: Blue Effect: Skip
-----
5: Type: Number Color: Yellow Number: 2
-----
amyah's turn
Pick a card to play (1 to 5)
```

<https://youtu.be/C1ahXVmBOC4>

THANK
YOU

