

# Uno Java Game

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A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

# Project 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, WildCard).

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  
  
Bob's turn  
Bob played:  
Type: Number Color: Yellow Number: 3  
-----  
Hit enter to end turn  
  
Steve's turn  
Steve played:  
Type: Number Color: Yellow Number: 2  
-----  
Hit enter to end turn
```

# Classes & Structure

Crad: Base class for all cards (types, and color)

Numbers: Number cards

Specialty: Effect cards

Player & AI Player: Handles human/AI turns, hand playable logic

# 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

```
100 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

<https://youtu.be/C1ahXVmBOC4>