

# Monopoly: Reddit Edition

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# The Problem



- Wanted to make a Monopoly game, couldn't decide on a theme
- What is something we all love and doesn't have it's own Monopoly edition?
- Reddit!

# Project Description

- Basic rules and form of the original game, with small changes to the specifics and graphics
- Same layout as original board
- Names, values, and “currency” were changed to be consistent

# Limitations

- We decided to choose AI over property management (houses, hotels, and trading)
- With AI, it would be difficult to implement an algorithm that would allow an AI player to make rational decisions about property management

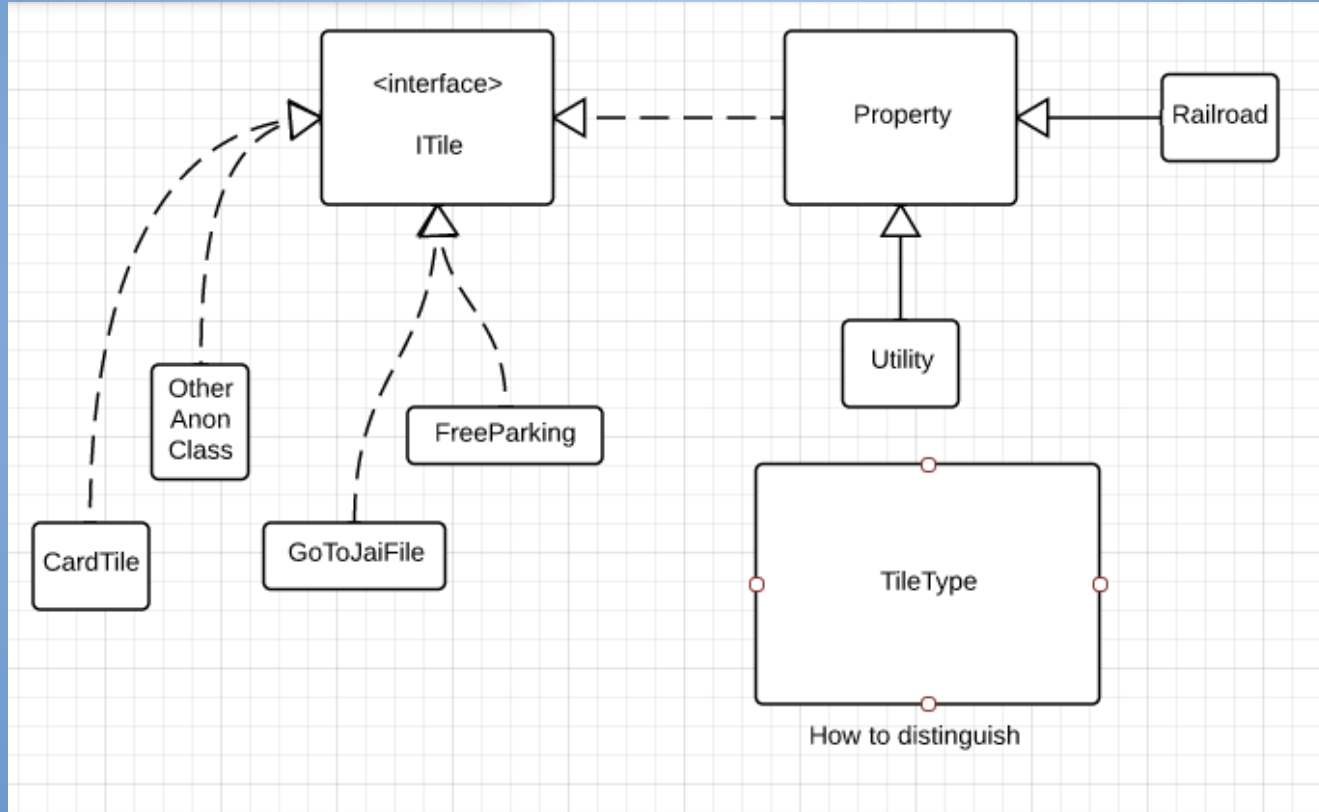
# The Model - XML

- Extensible Markup Language
- Generalization of HTML
- Used to save, load, and send objects
- Custom parser gets data and creates objects
- Loads the tiles and cards

```
<?xml version="1.0" encoding="UTF-8" ?>
<Tiles count="5">
  <Go></Go>
  <Property>
    <Name>Mediterranean Avenue</Name>
    <Value>60.0</Value>
  </Property>
  <CardTile>
    <Type>Community Chest</Type>
  </CardTile>
  <Property>
    <Name>Baltic Ave</Name>
    <Value>60.0</Value>
  </Property>
  <IncomeTax></IncomeTax>
</Tiles>
```



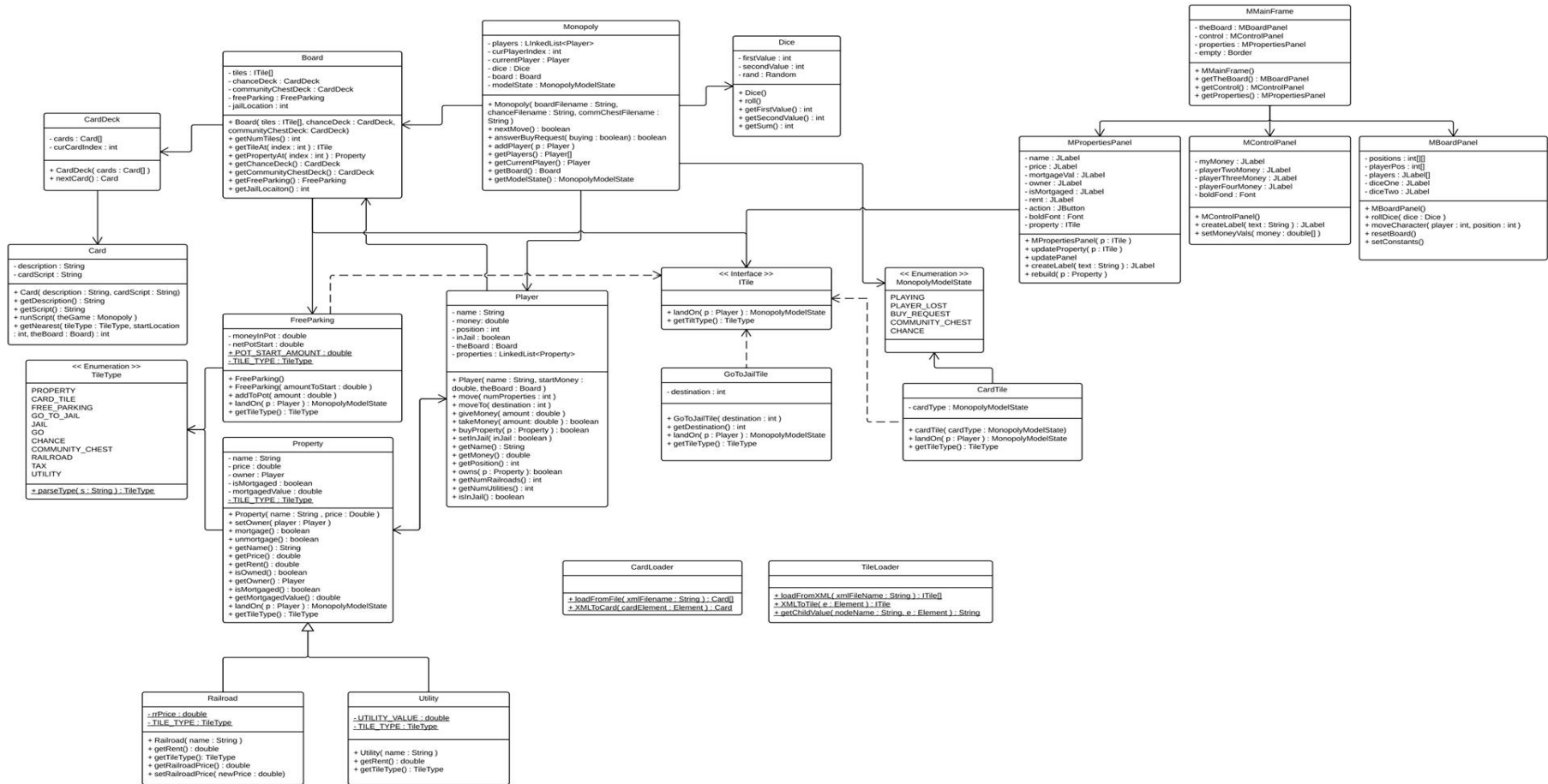
# The Model - Tiles



# The Model - Cards

- CardScript language
  - Simple functions “pay”, “collect”, “paytoall”, “railroad”, etc...
- Each Card has description and an associated script
- Cards are loaded from XML, randomized on load

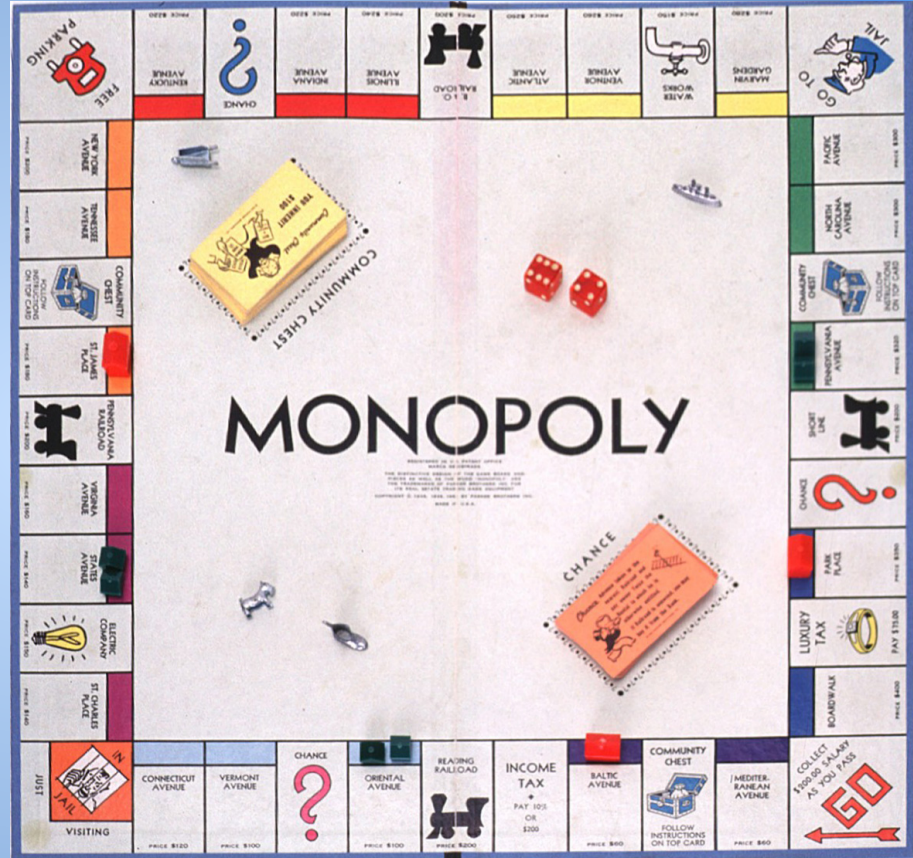






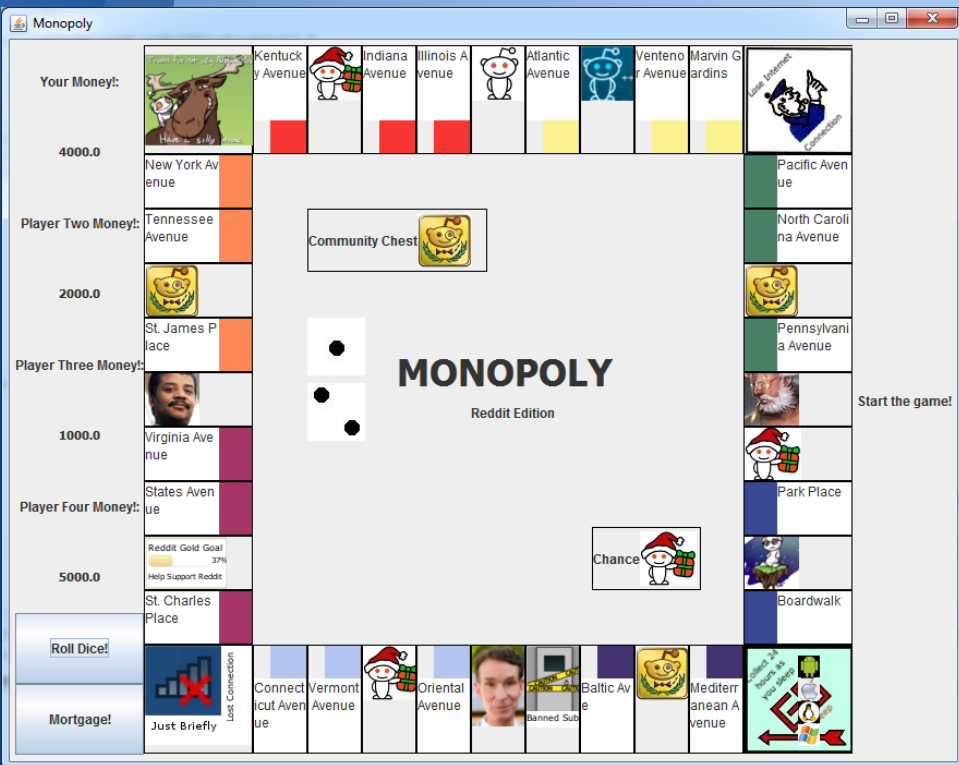
# The View - GUI

- Initial Design
- Additional Panels?
  - Properties
  - Control
- Parts on screen?
- How to create?



# The View - GUI

- Swings
  - Components
- Different panels and frames?
- Methods available









# Demonstration!



Image from <http://thebeardnetwork.com/nicpb/>

# Future Features

- “Smart” AI
- Mortgaging
- Chance/Community Card JOptionPane
- Save Game/Load Game
- Settings
  - Change Player Name
  - Change Starting Cash