CSI34 Lecture 25: Tic Tac Toe: Game Logic



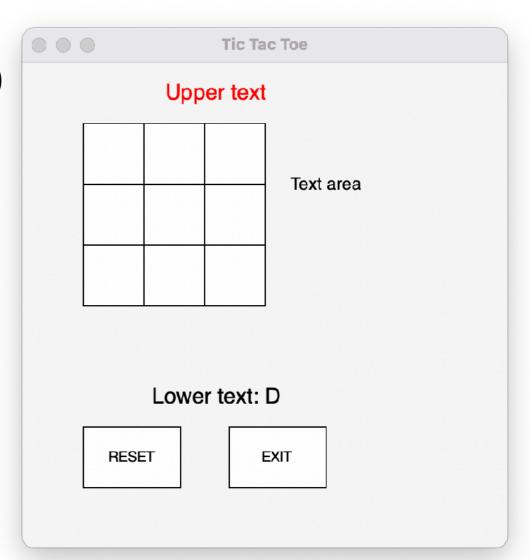
Announcements & Logistics

- **HW 8** due Mon @ 10 pm
- Preregistration Info Session today
 - 2.35 pm in Wege Auditorium
 - Come find out more about CS major requirements and fall courses
 - There will be cookies!
 - Lab 9 Boggle: two-week lab
 - **Part I** due next Wed/Thur I0 pm
 - Will run our tests on these and return automated feedback: you are allowed to revise it afterwards without penalty!
 - **Part 2** due May 1/2

Do You Have Any Questions?

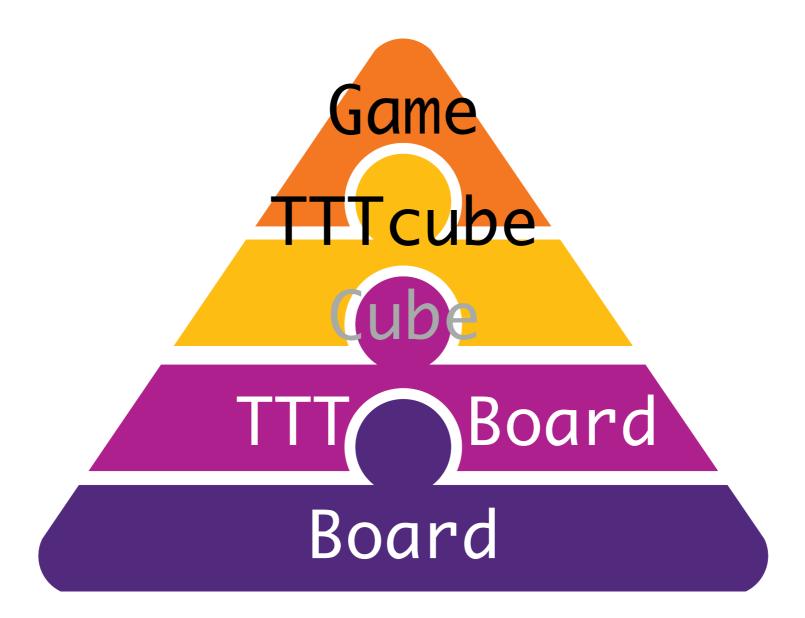
Last Time: Board class

- Basic features of our game board:
 - Text areas: above, below, right of grid
 - Grid of squares of set size: rows x cols
 - Reset and Exit buttons
 - React to mouse clicks (we'll discuss this)
- These are all **graphical** (GUI) components
 - Used graphics package to create rectangles/window/text
 - object.draw(win) draws object
 on graphical window win



Today: Text-Based TTT

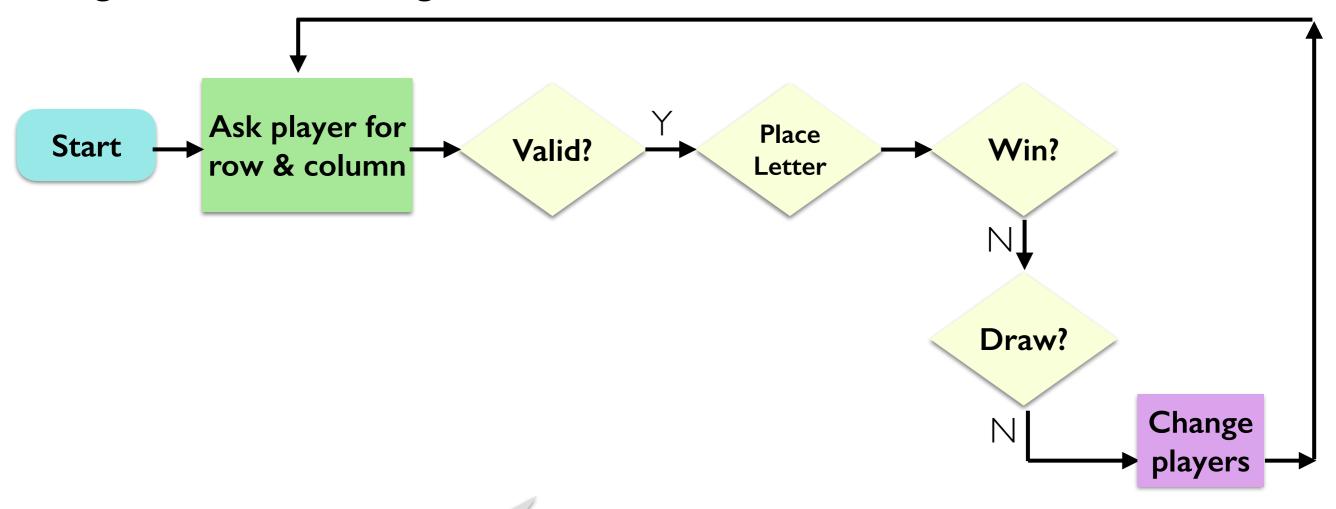
• Explore inheritance through "grid-based word games"



Code in Notebook tic-tac-toe-2.ipynb

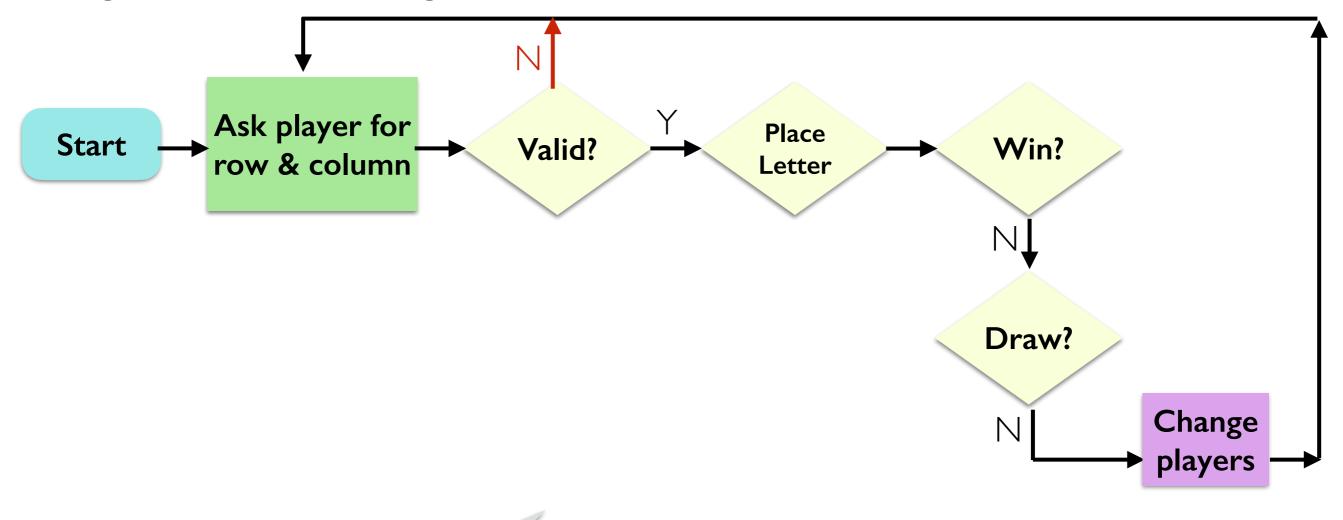
TTT Game Logic

• Let's create a TTT flowchart to help us think through the state of the game at various stages



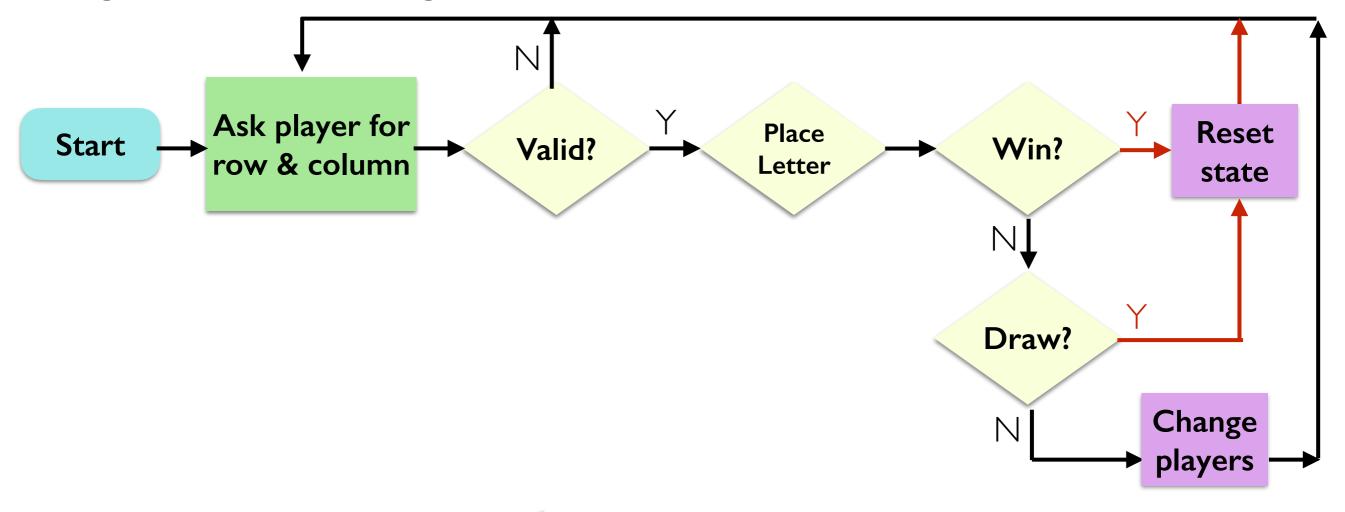
Let's think about the "common" case: a valid move in the middle of the game

• Let's create a TTT flowchart to help us think through the state of the game at various stages



Now let's consider the case an invalid move

• Let's create a TTT flowchart to help us think through the state of the game at various stages



Now let's consider the case of a win or draw

