Advanced Data Visualization Using Tableau

Professor Widom's Instructional Odyssey

www.professorwidom.org

Tableau

- Popular standalone data visualization tool

- Similar visualization types to spreadsheets, but more intuitive and easier to use

+ Ability to create *interactive* visualizations

+ Ability to *publish* interactive visualizations

Stanford University

Agenda

- **Setup**
- **Chart types**
  - Bar charts
  - Pie charts
  - Scatterplots
  - Packed bubbles
  - Maps
- **Interactive Dashboards**
- **Sharing/Publishing**
- **Your Turn**

> Barely scratching the surface of Tableau capabilities

World Cup Data Visualization

Load PlayersExt.csv into Tableau and create an amazing interactive visualization!

Requirements

1. Interactive dashboard (one pane drives others)
2. At least three different visualization types
3. Each pane illustrates something different about the data
4. All visualizations "make sense"

Hint: To use a map, in the Team drop-down menu change Geographic role to Country/Region

Warning: Don't forget that all team info (Ranking, Wins, Losses, etc.) is repeated for each player on the team