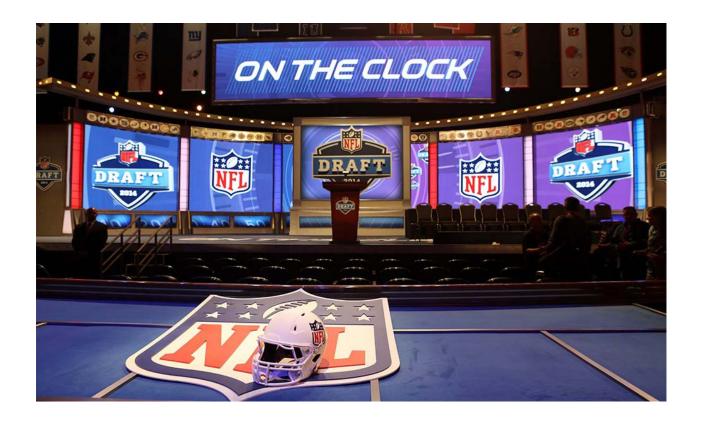
Web Scraping The NFL Draft

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National Football League

- Average franchise value: \$2.3 billion.
- \$\$\$ in advertising, marketing, sales ...

• And ...

People Love Football!





NFL Team

- 32 teams
- 53 players per team:
 - Offense: Quarterback, running back, tight end, wide receiver, guard, tackle.
 - **Defense**: End, tackle, linebacker, cornerback, safety.



Where Players Come From

- Colleges
 - Part of conferences, somewhat regionally established.
- Drafted by NFL teams in yearly draft.
- 7 rounds
 - Draft order is from worst team in previous season to best.
 - Teams can trade draft positions for strategic purposes.

Draft Decision Making

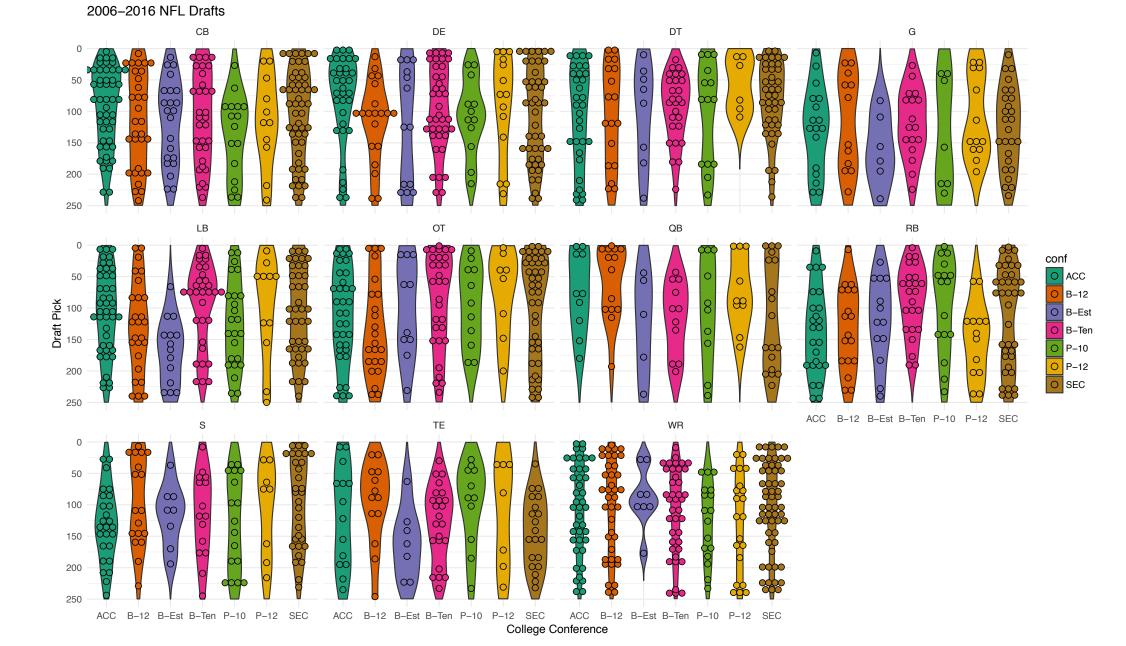
- NFL teams scout college players year around.
- Prior to the draft, college players perform physical and mental drills at the NFL combine.
- Teams invest \$\$\$ trying to select great players.

Project Question

- Can data science inform us about the NFL draft process?
 - What positions and conferences are selected preferentially within the 7 rounds?

Data Science Methods

- Scrapy for web scraping:
 - Wikipedia pages from the last ten years of NFL drafts.
 - Round, pick, team, player, position, college, conference.
- R ggplot 2 for data visualization.



Future Directions

- Draft selection changes over time.
 - May reflect game strategies.
- Compare draft selections with player performance metrics.
- Compare drafts of successful teams (New England Patriots, Green Bay Packers) vs. unsuccessful teams (Cleveland Browns, Jacksonville Jaguars).