



Ohio State Sport Analytics Hackathon

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Introduction

Goals of CFP Format

- Select Best Teams and Assign Them to Appropriate Sites

Principles

- Strength of Schedule
- Head-to-Head
- Outcomes vs Common Opponents
- Unavailability of Key Players/Coaches

Task

- Create Optimal CFP Format



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Principles in Action: 2023

Team	Ranked Wins				Notable Loses	SOR	
M						1	
W						2	
							9
							4
							5
G							3
							7

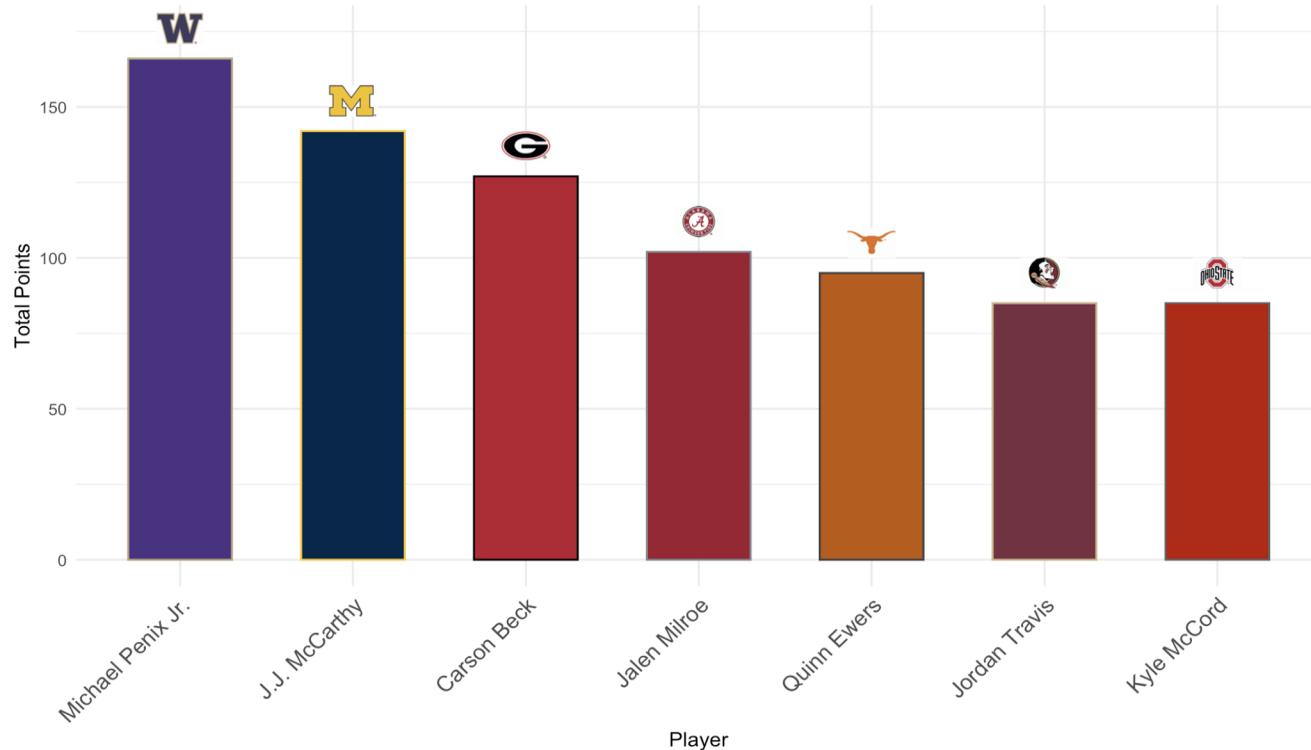




Contribution of Key Players: 2023

Total Points by Player: 2023

Travis Played 10 Full Games



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Drastic Changes in 2024

1

Expand CFP From 4 Teams to 12

2

Ensured Conference Champions Make It

3

Top 4 Conference Champions Receive Bye.

4

7 Non-Conference Winners Make it.



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Drastic Changes in 2024

Team	Ranked Wins	Notable Loses	SOR
			5
			6
			3
			1
			9
			8
			18
			17

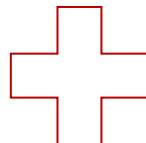


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Methodology

1

Playoff
Team
Model



2

Team
Entry
Amount



3

Optimal
Playoff
Format



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Playoff Team Model

Strength of Record

Pass Block Points

Run Block Points

Pass EPA

Run EPA

Run Defense Points

Pass Coverage Points

Logistic Model

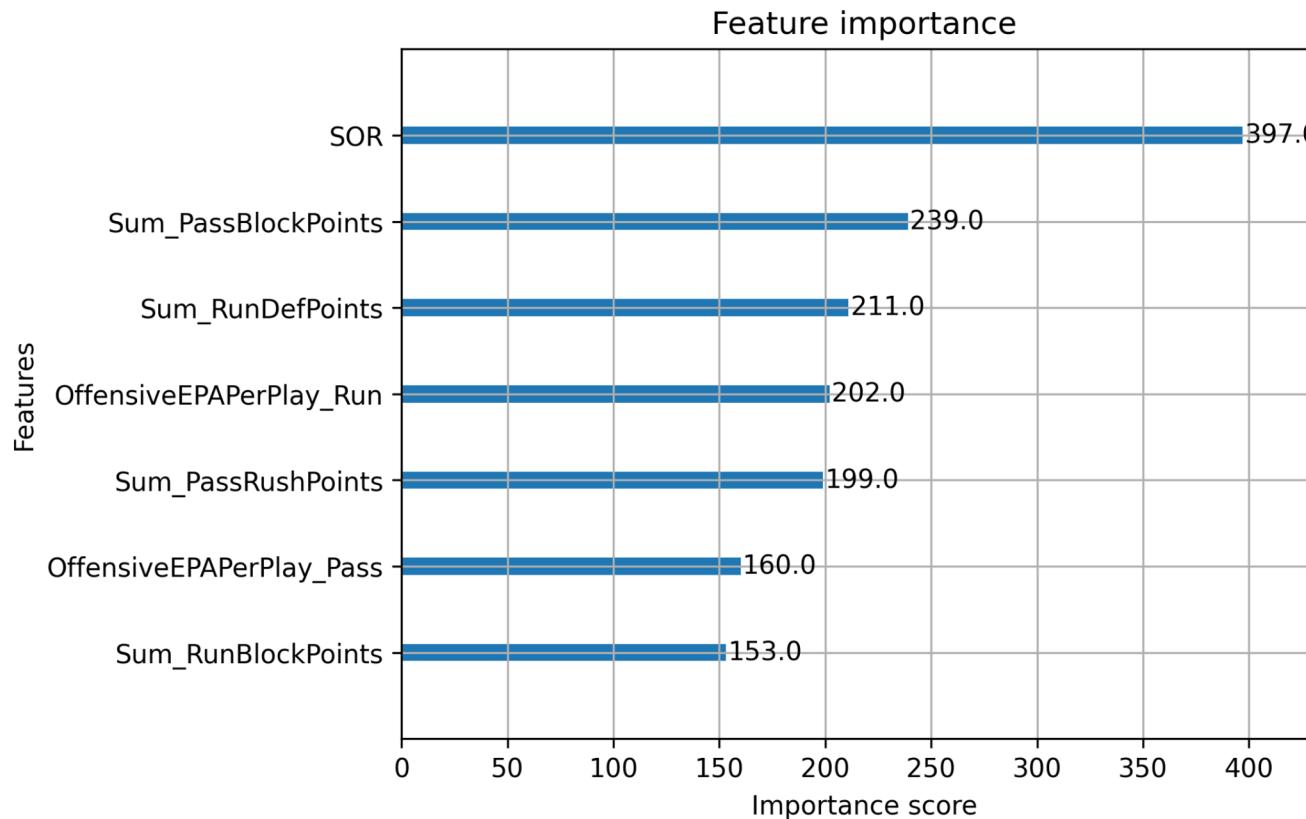
Predicted Probability of Making Playoffs

Projected Team Rankings Based on Pure Offense, Pure Defense, and SOR





Playoff Team Model Results

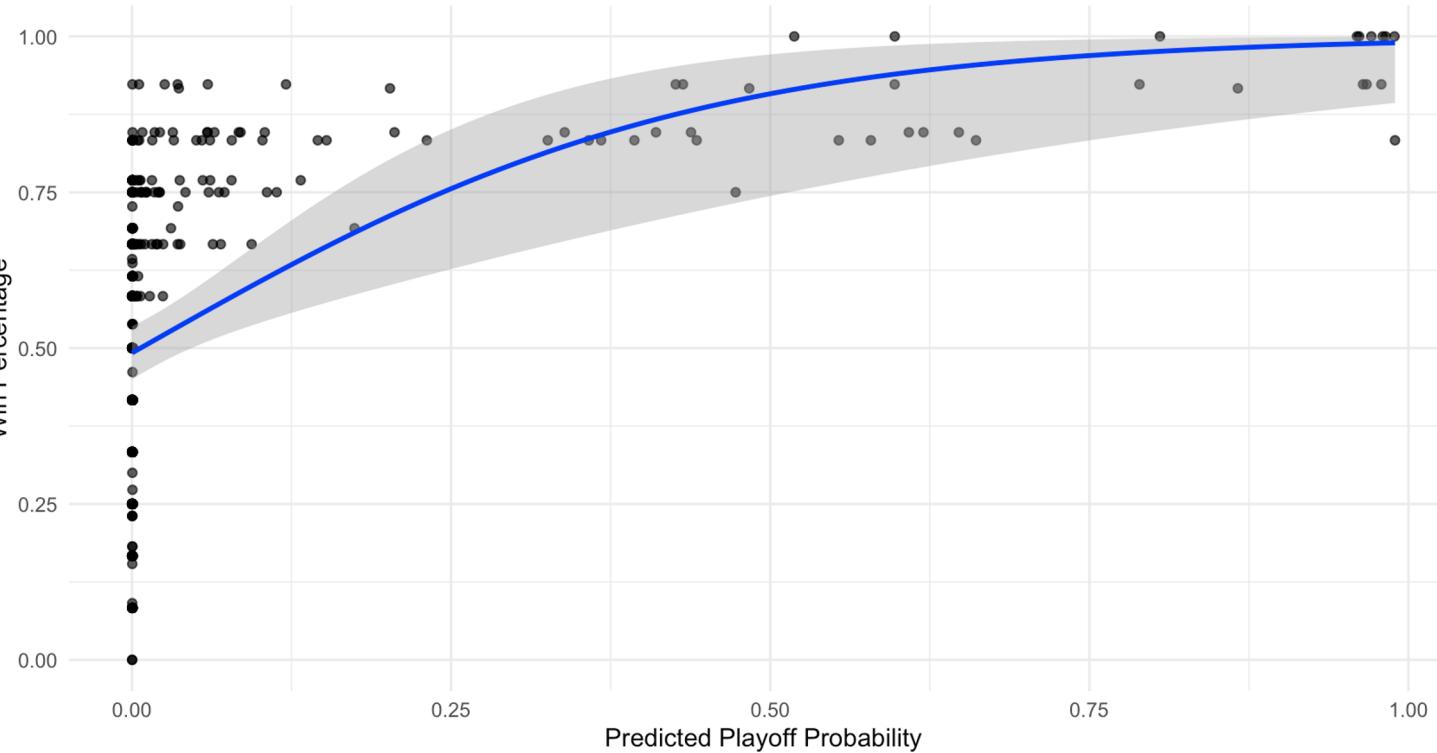




Playoff Probability vs Win Pct

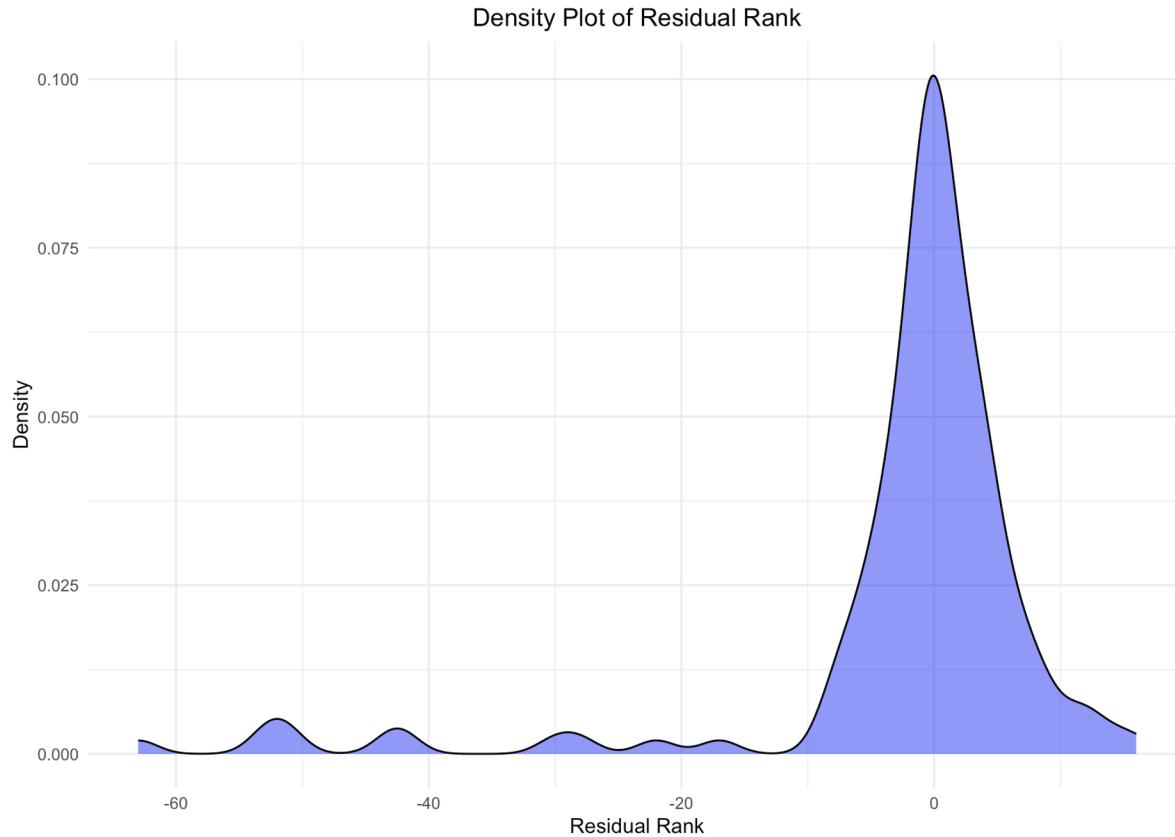
Relationship Between Win Percentage and Predicted Playoff Probability

2018-2024



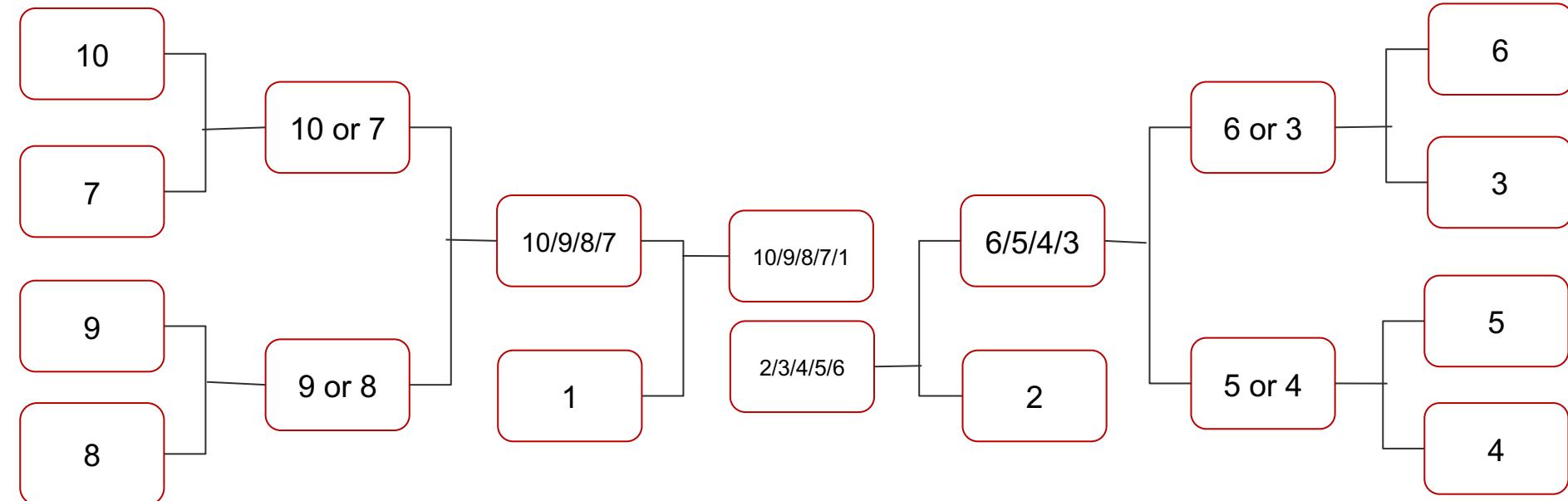
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Team Validation



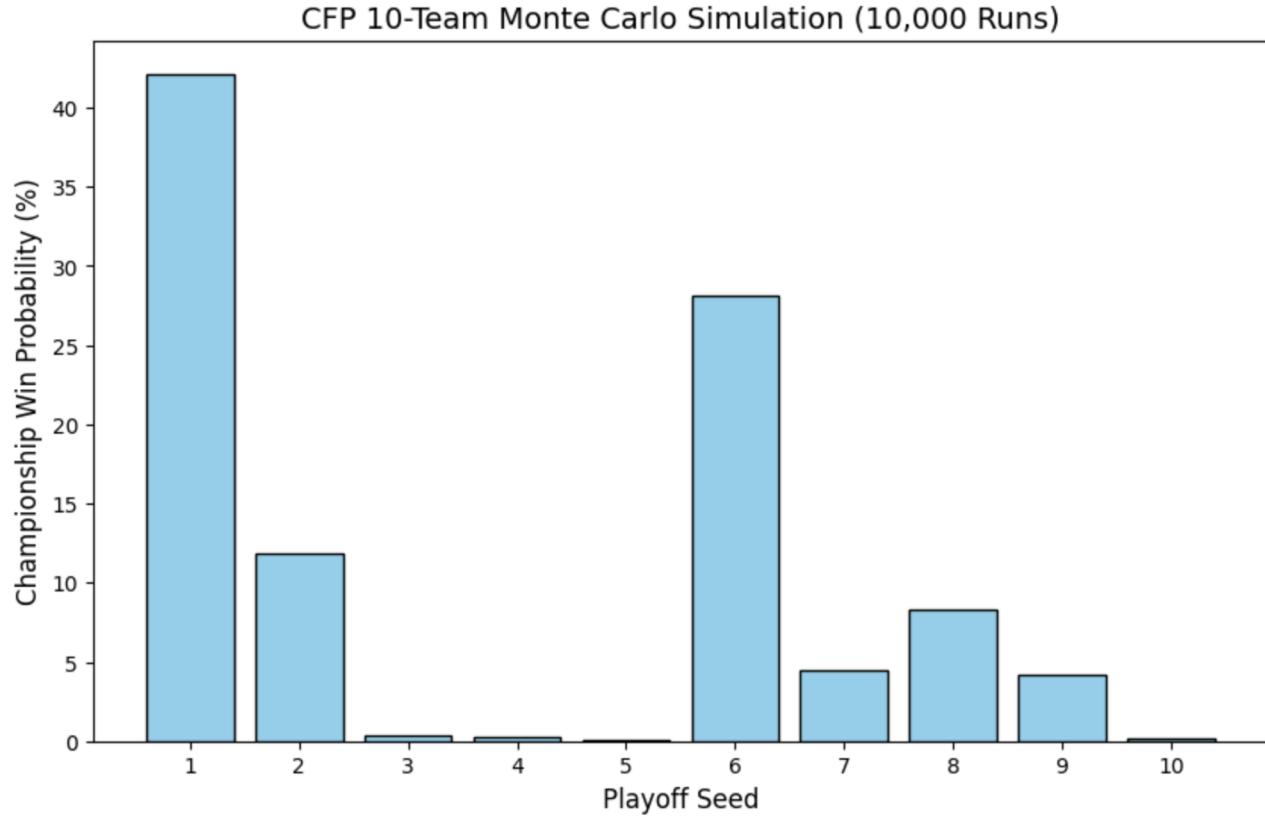
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General Playoff Format



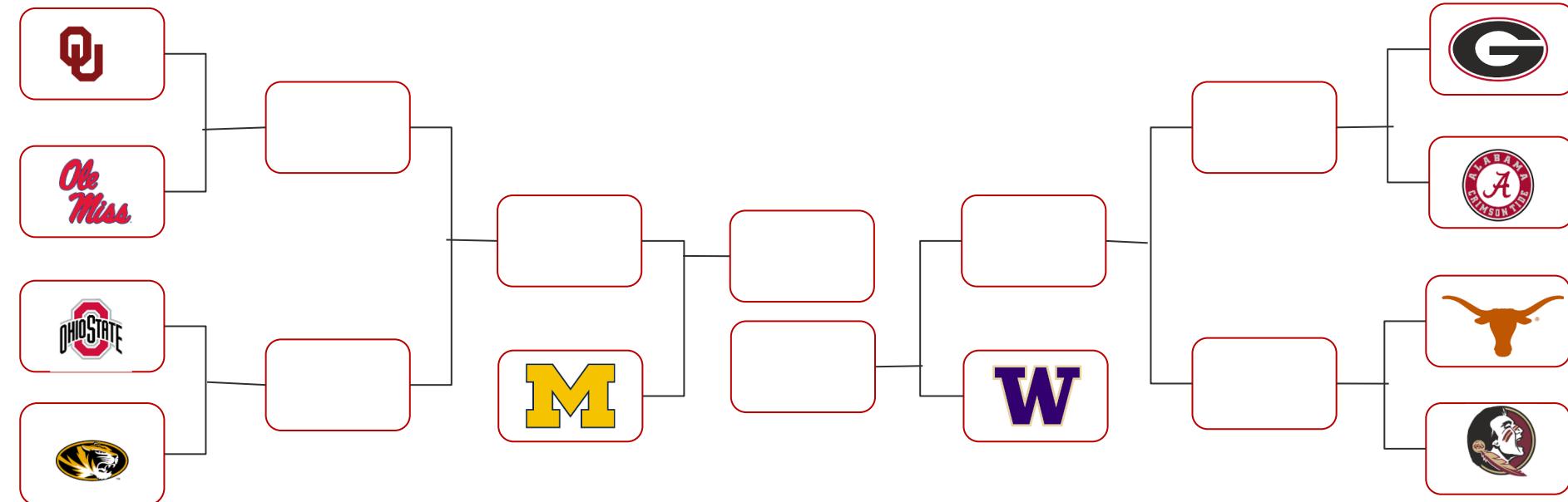
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Why a 10-Team Format



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Playoff Format: 2023



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Playoff Format 2024

