

NBA from 1996 to Today

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Problem

There is no well-known, comprehensive visualization of sports statistics, but rather isolated and typically esoteric articles and complex spreadsheets.

Motivation

We compiled basketball statistics for every NBA team into a dynamic visualization tool in order to deduce trends and gain an understanding of each team.

Approach

- Focused on the last twenty years and on the statistics most indicative of success in basketball
- Featured eight total statistics (four offensive and four defensive)
- Implemented a visualization tool as an iPad application

Future Work

- Extend our tool to incorporate more than the four offensive and four defensive factors
- Add player and per game stats and cover more years
- Convey information about how team is managed/coached
- Any sport could utilize a similar tool

Results

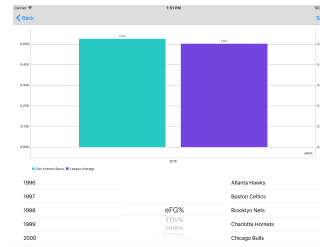


Fig. 1 How 2 Teams Compare in 2016

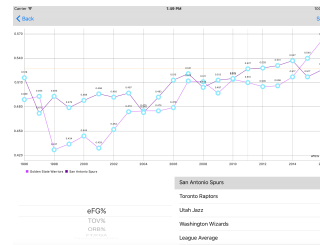


Fig. 3 How 2 Teams Compare Across 20 Years



Fig. 2 How 4 Teams Compare in 5 Years

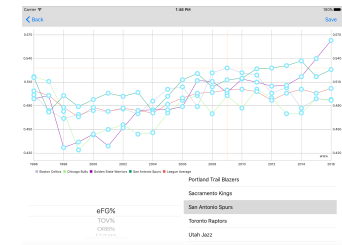


Fig. 4 How 5 Teams Compare Across 20 Years

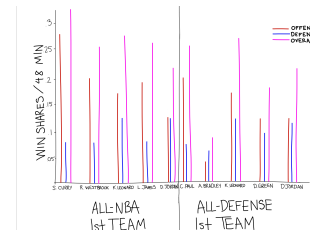


Fig. 5: A comparison of the 5 best overall players and 5 best defensive players of 2016