# Using D3 in Real Life



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# What You'll Learn



Arguments for and against D3

**Use Cases** 

Web App Example

**Data Journalism Example** 

**Data Science Example** 



### Arguments for and against D3



### Arguments for D3

D3

**BI Tools** 

**Open Source** 

Web Standards Focused

Real-Time

**Expansive Viz Options** 

Proprietary / Paid

**Non-Standard Frameworks** 

Typically No Real-Time Support

**Limited Viz Choices\*** 



### Arguments for BI Tools

D3

**BI Tools** 

Lots of Coding

Complex

**Limited Native Data Connections** 

**Manual Calculations** 

**Limited Data Manipulations** 

Data to Viz in Seconds

Easy to Use

**Native Data Connections** 

**Automated Calculations** 

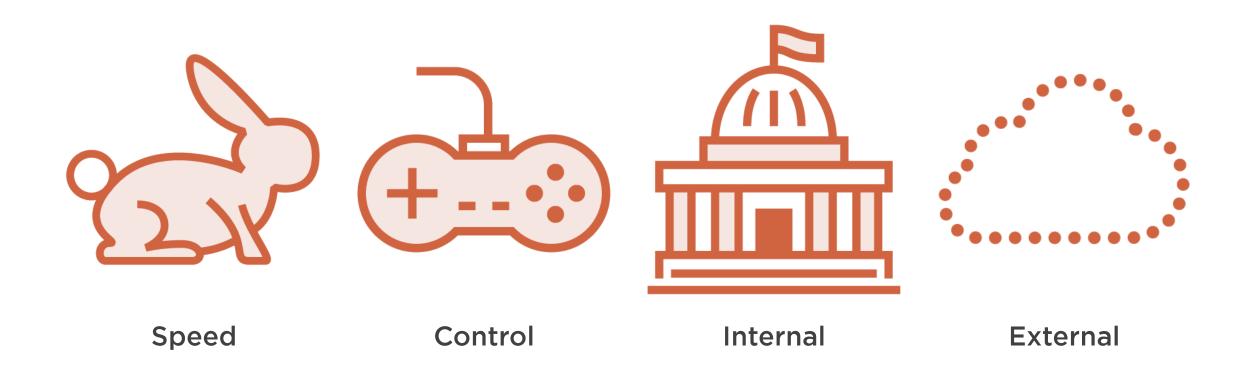
**Strong Data Manipulations** 



### Use Cases



## Key Factors



Use Cases: **D3** BI Tools Internal Analytics Platform Public Data Viz Work Embedding into a Product Need Answer Fast

Real-Time Interactive Web



Key Factors: **D3 BI Tools** Speed to Delivery Control Over Display Internal Use External Use Great Visualizations

# Web App Example







Home

Browse

Paths

Mentors

Playlists

Bookmarks

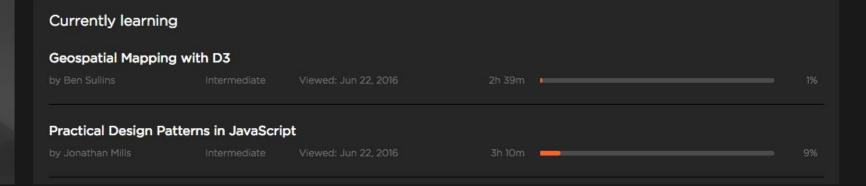


San Diego, CA

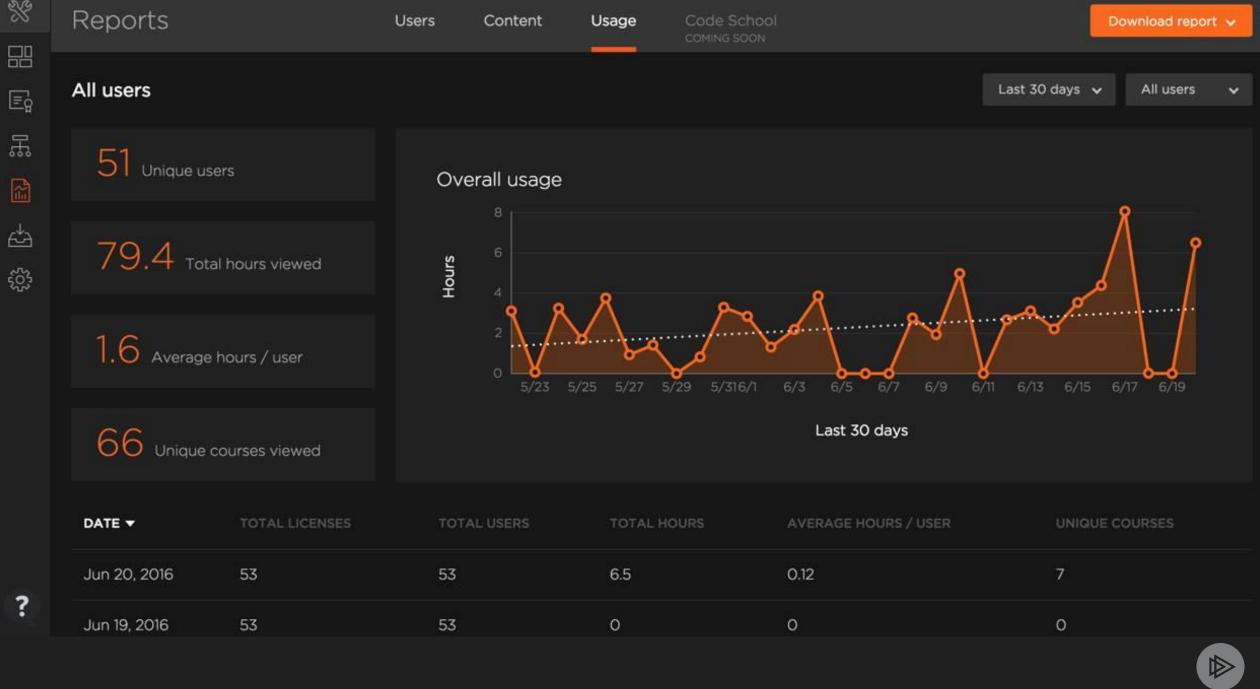














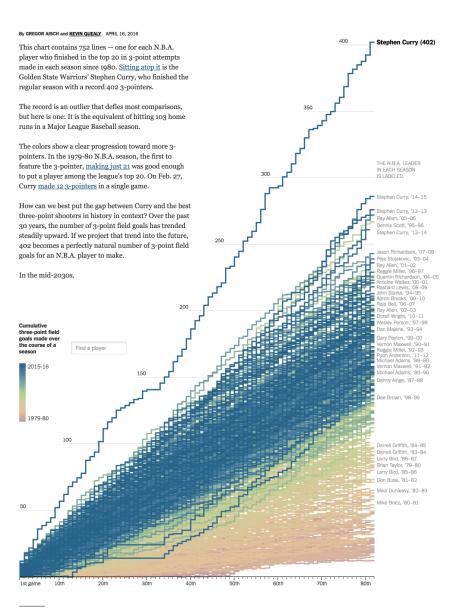
## Data Journalism Example





→ SHARE

# Stephen Curry's 3-Point Record in Context: Off the Charts







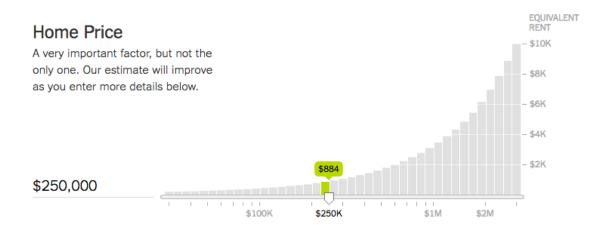




### Is It Better to Rent or Buy?

By MIKE BOSTOCK, SHAN CARTER and ARCHIE TSE

The choice between buying a home and renting one is among the biggest financial decisions that many adults make. But the costs of buying are more varied and complicated than for renting, making it hard to tell which is a better deal. To help you answer this question, our calculator takes the most important costs associated with buying a house and computes the equivalent monthly rent. RELATED ARTICLE



#### How Long Do You Plan to Stay?

Buying tends to be better the longer you stay because the upfront fees are spread out over many years.

EQUIV. RENT - \$4K

#### If you can rent a similar home for less than ...

\$884 PER MONTH

#### ... then renting is better.

Costs after 9 years	Rent	Buy
Initial costs	\$884	\$60,000
Recurring costs	\$106,941	\$163,398
Opportunity costs	\$15,396	\$44,587
Net proceeds	-\$884	-\$145,649
Total	\$122,337	\$122,337

How to Read the Charts Charts that are relatively flat indicate factors that are not particularly important to the outcome. Conversely, the factors



## Data Science Example

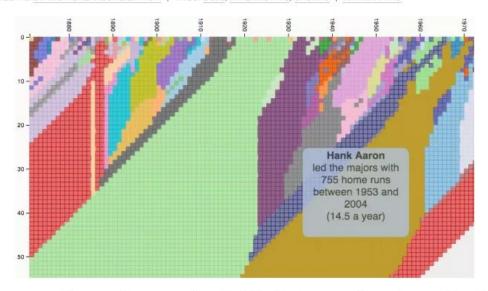


BOOKS

### Cherry picking years for random sports statements

POSTED TO STATISTICAL VISUALIZATION | TAGS: D3JS, INTERACTIVE, SPORTS | NATHAN YAU

**FLOWINGDATA** 



When you watch sports, it can sometimes feel like the stat guy pulls random numbers for the talking heads to ponder, and you can't help but wonder who significant the numbers actually are. Benjamin Schmidt shows all the possibilities for a common statement during baseball games, and it turns out there are a lot of statements to pick from.

Statements of the form "Jack Morris won more games in the 1980s than anyone else" are fascinating. Although they're true, they rest on cherry-picked years that may or may not illustrate a deeper truth in context. (And we see them all the time: see my college degrees cherry-picker for another area.) For baseball, there are thousands of statements just like the ones here that you can make about any single cumulative stat over the game's history-10,296, to be exact. Printed out, all the statements you could make with the data here would take about 15,000 pages: this visualization lets you hone in on the patches of interest.

### Where to Find More



# Where to Find More



### **Pluralsight Courses**

- Beginning Data Visualization with R
- D3 Fundamentals

### **Code School**

- Try R
- You, Me, and SVG

### **External**

- bensullins.com/d3bigpicture-m4

