

Data Talks

Grade 3 – Topic 7

Guidelines

- All ideas welcome
- One speaker at a time
- What do you notice?
- What do you wonder?

Batman: The Multimedia Knight

Percentage of U.S. respondents who were first introduced to Batman through each medium



- 24 Comic book or graphic novel
- 25 Live-action TV
- 17 Animated TV
- 15 Movie
- 3 Video game
- 3 Action figures
- 1 Other
- 13 Don't know

Data collected in March 14-15, 2019, of 1,208 U.S. adults
Source: YouGov



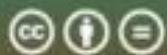
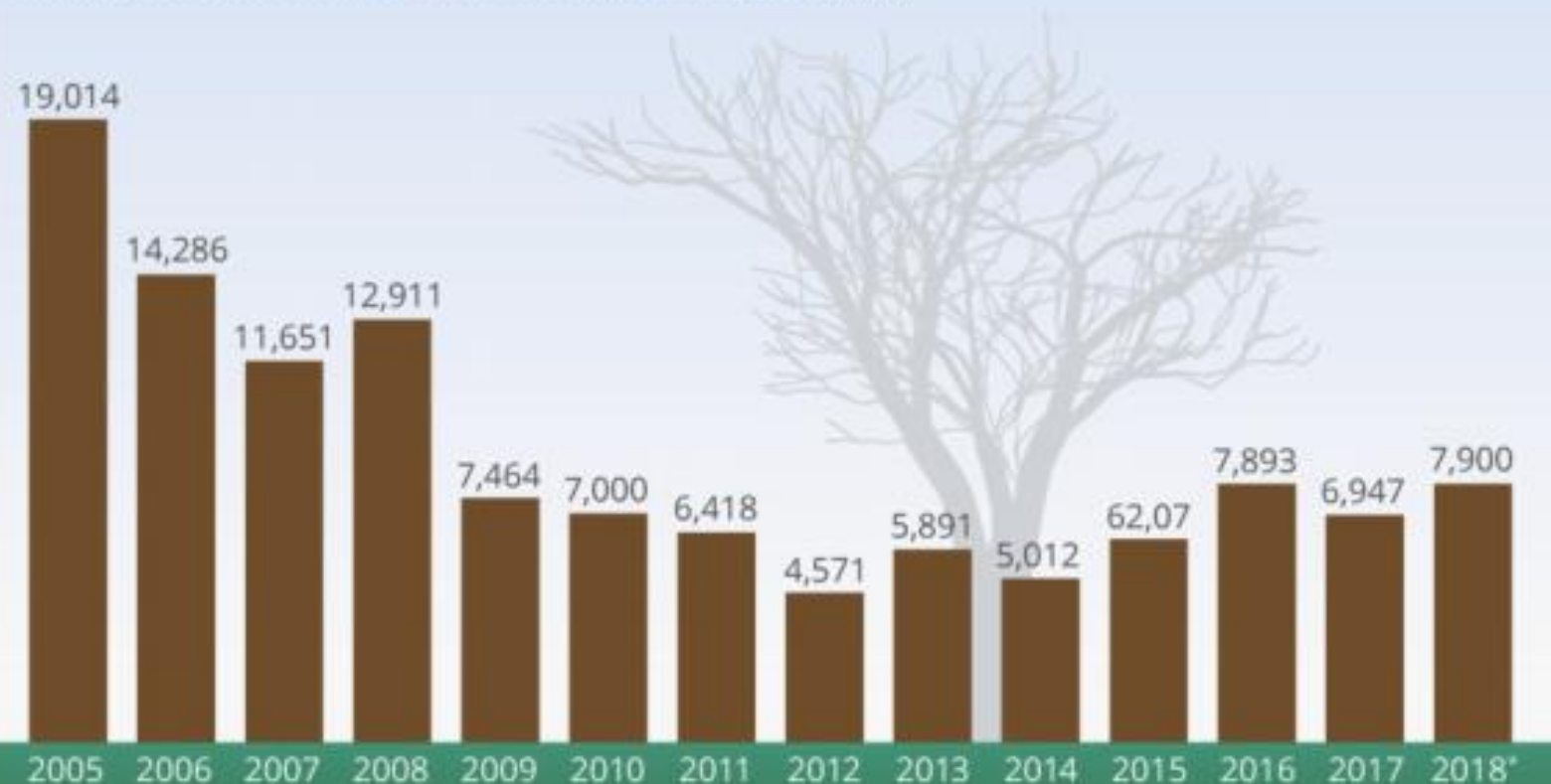
statista

<https://www.statista.com/chart/22736/batman-across-different-media/>

Do you love Batman, an amazing and popular superhero? This chart by Willem Roper shows the results of a survey of over 1,000 adults in 2019. The survey shows how people were first introduced to this iconic superhero.

Brazil Sees Worst Deforestation In A Decade

Estimated deforestation in the Brazilian Amazon (km²)



@StatistaCharts

* Year from August 2017 to July 2018

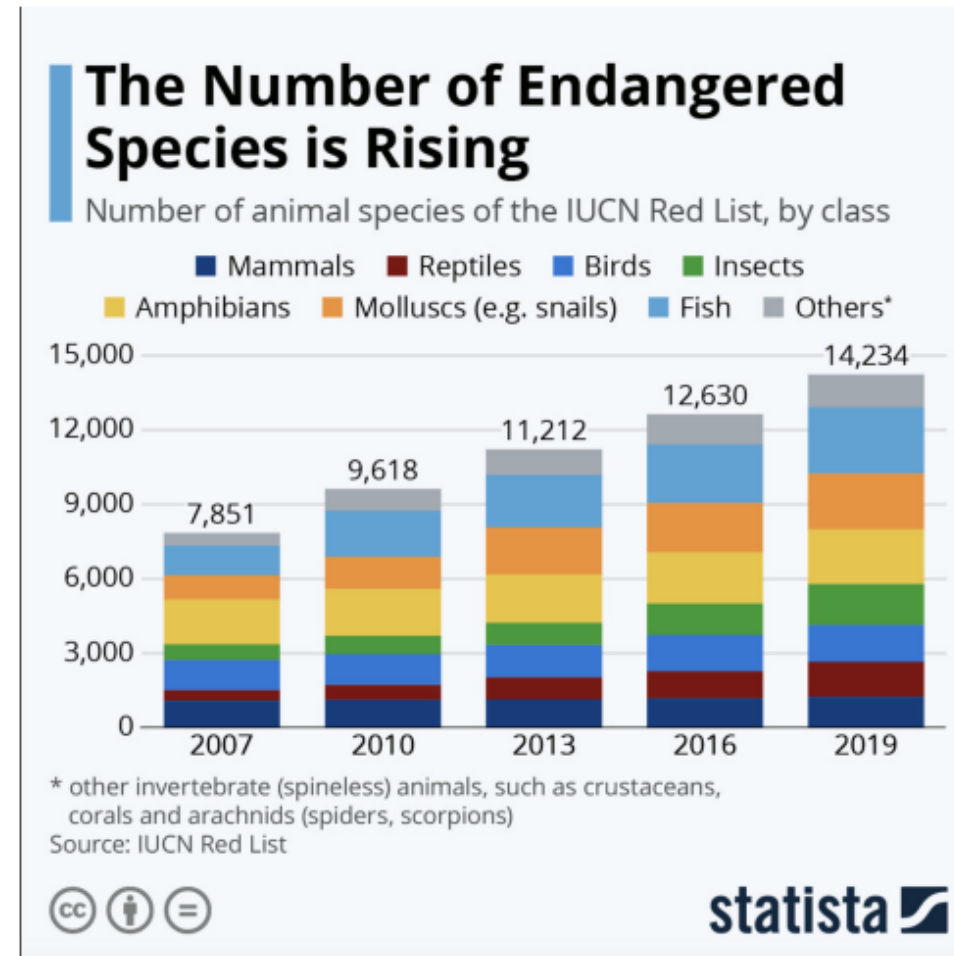
Source: Instituto Nacional de Pesquisas Espaciais

statista

<https://www.statista.com/chart/16212/estimated-deforestation-in-the-brazilian-amazon/>

There is a powerful and complex story behind this graph. The Amazon rainforest is the world's largest tropical rainforest, known for its biodiversity. Although the region may seem distant and unfamiliar to many, the effects of deforestation (clearing trees) in the Amazon are global.

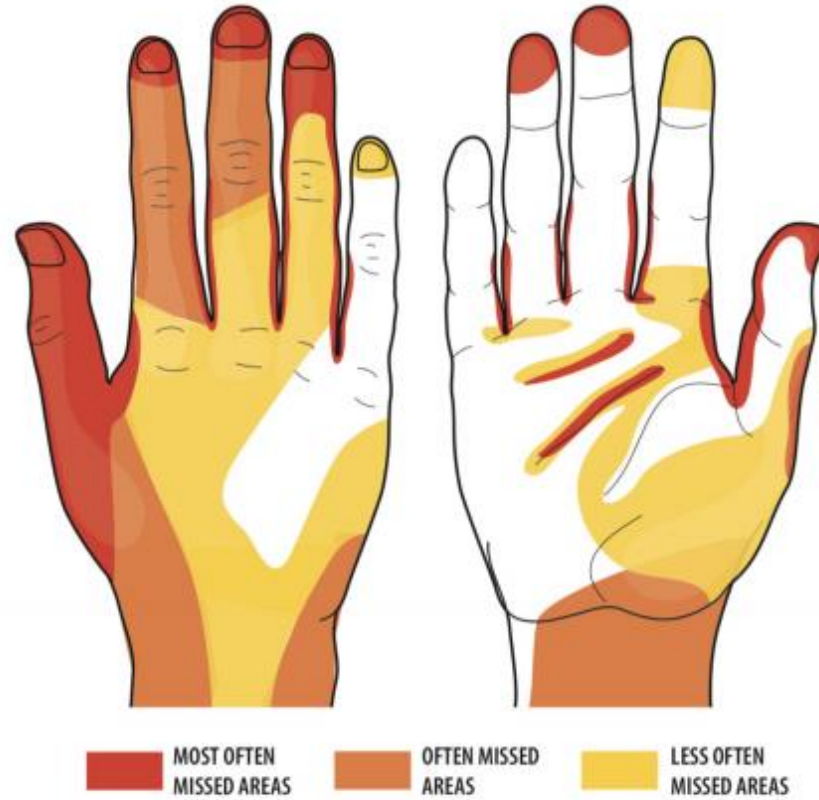
What is going on in this data visualization?



<https://www.statista.com/chart/17122/number-of-threatened-species-red-list/>

Who doesn't love the diversity of animals in our world? This graph, showing endangered species, is sure to spark some great discussion and inform students of an important issue.

What do you wonder?
What is going on in this data visualization?

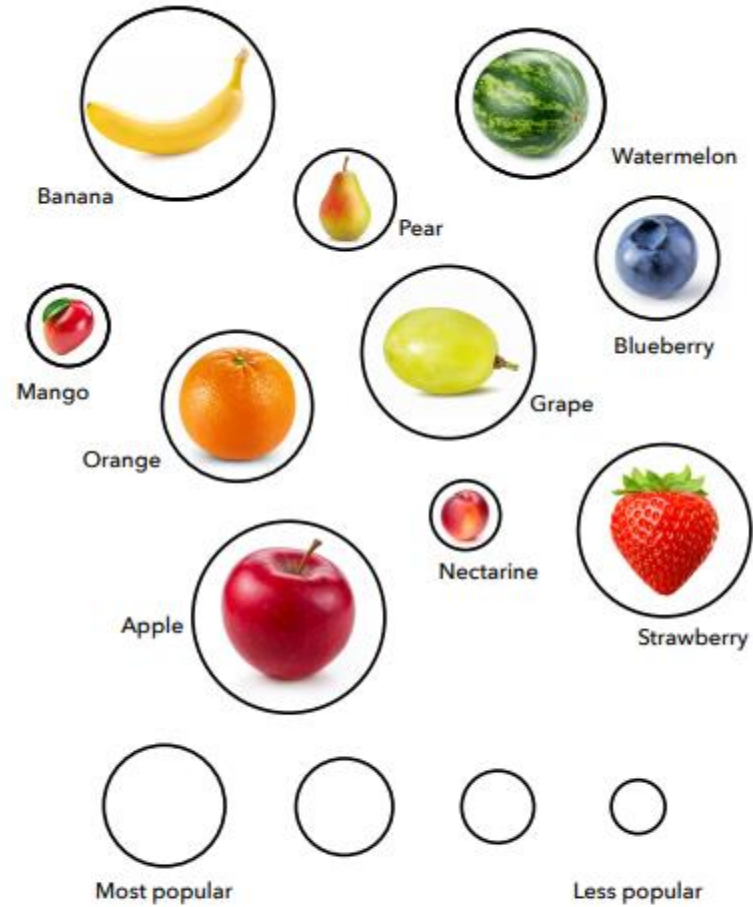


Reference: Taylor, L.I. An evaluation of handwashing techniques. *Nursing Times*. January 1978.

<https://flowingdata.com/2020/02/18/most-often-missed-areas-while-washing-hands/>

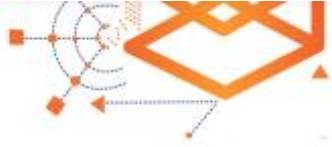
We love this hand washing visual! The data is from a study that evaluated the handwashing techniques of health care professionals in 1978. Do you think this visual would be different if the study was done today?

Popular fruits bought in the US

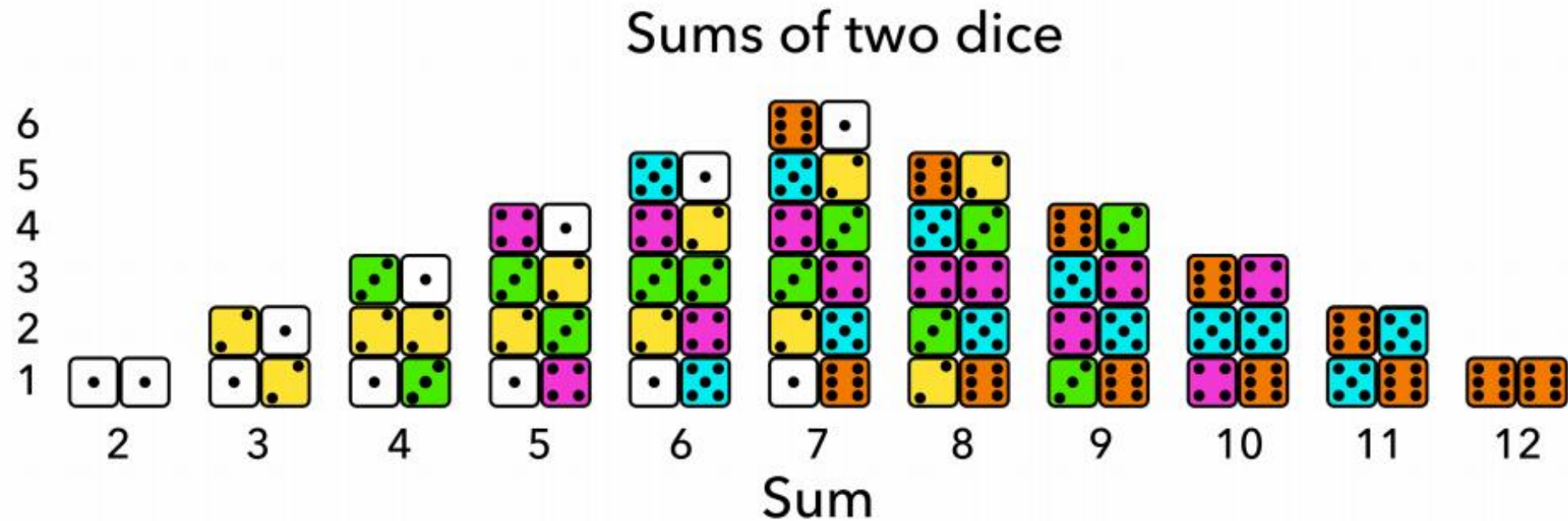


<https://www.pma.com/content/articles/2017/05/top-20-fruits-and-vegetables-sold-in-the-us>

This data display uses the size of circles to show the popularity of fruit purchased by consumers in the U.S during 2019. The data comes from The Packer's 2019 Fresh Trends survey. Are your favorite fruits in the graph?



What do you notice?
What do you wonder?
What is going on in this data visualization?



We've made a frequency graph showing the sums of two dice! Students may wonder why there are two ways to make sums when the addends are not the same. This is a great place to have a conversation about counting the number of ways an outcome can occur in a sample space.

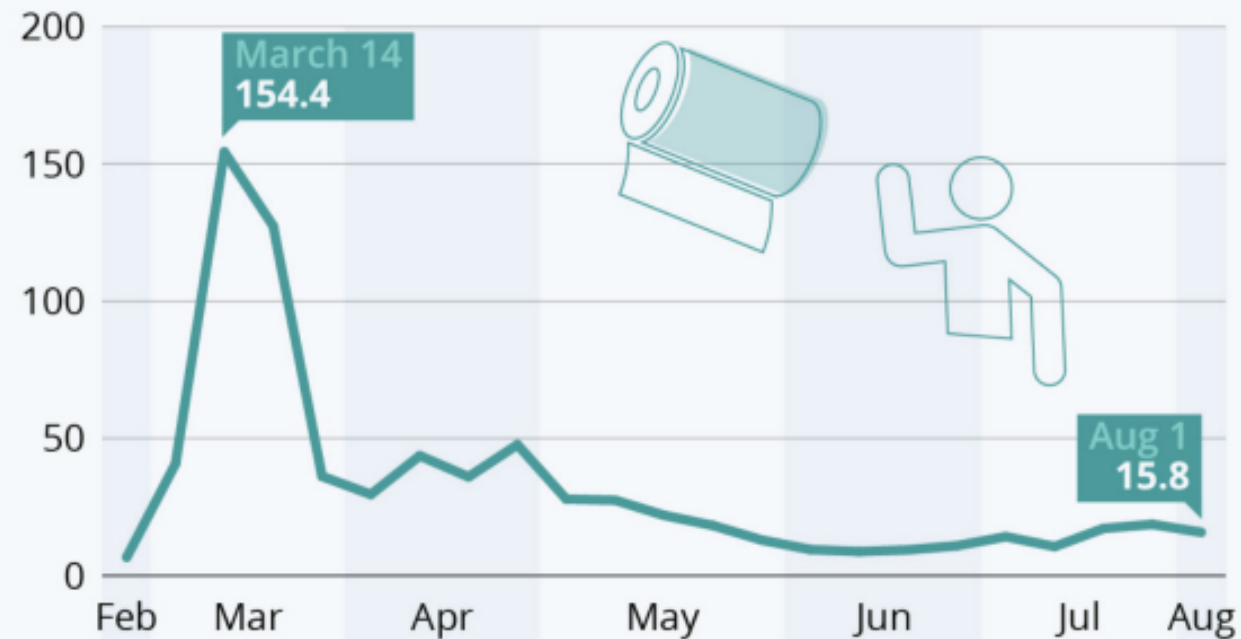
The water I use in 24 hours



Here's a look into Youcubed Co-Founder, Cathy William's, water usage in a 24-hour period. She chose to make a visual display inspired by the creativity of the Dear Data women. How do you use water everyday?

The Great Paper Towel Rush Has Calmed

Percent growth in U.S. paper towel sales in 2020 vs. same week in 2019



E-commerce sales not included.

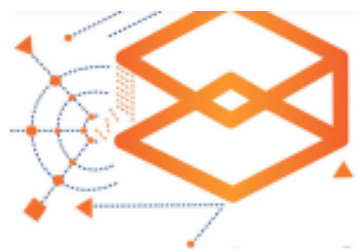
Sources: Nielsen, Wall Street Journal



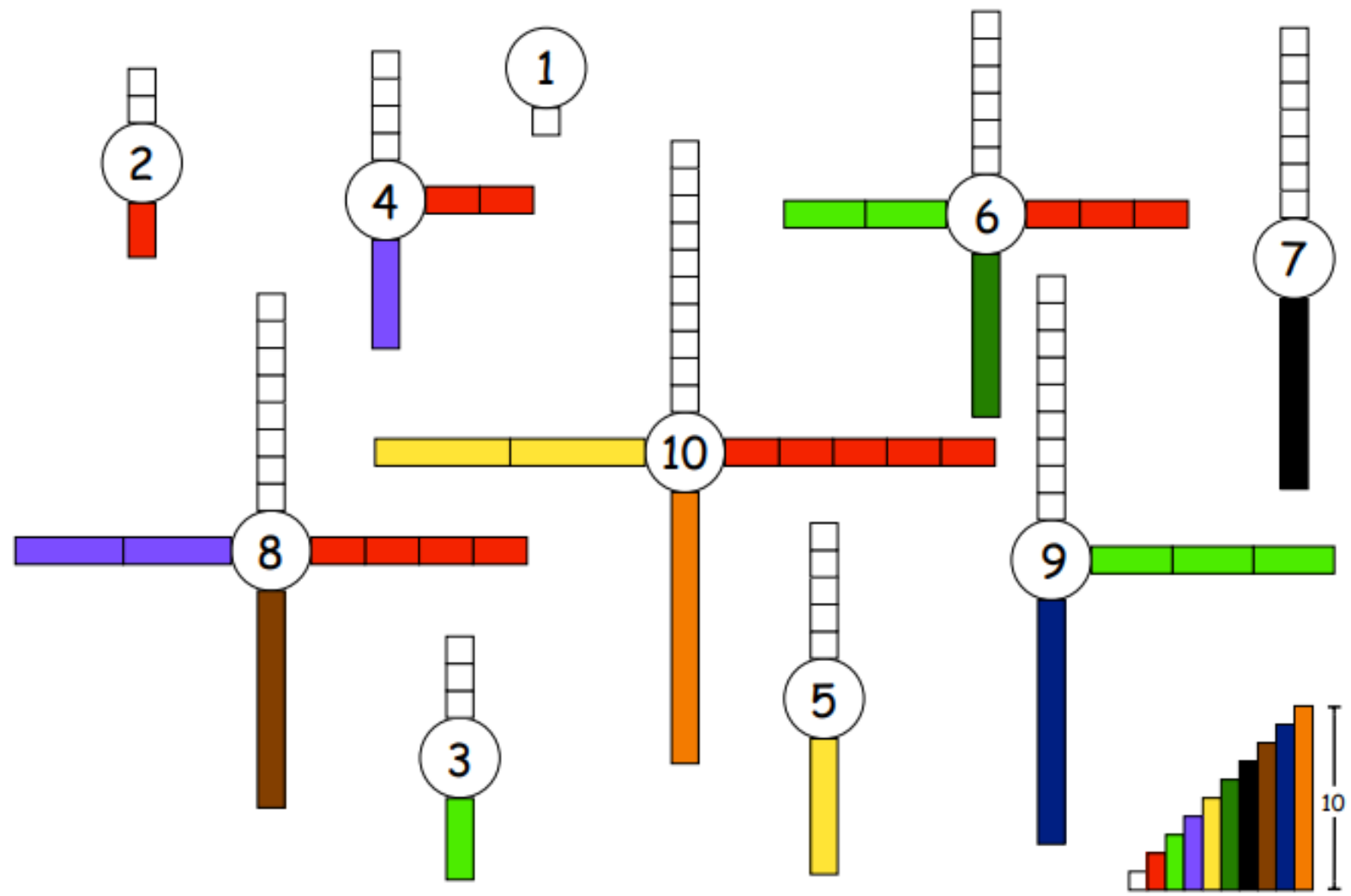
statista

<https://www.statista.com/chart/22734/paper-towel-shortage/>

When demand exceeds supply and consumers encounter empty store shelves, panic happens! This graph, by Willem Roper, shows the growth of paper towel sales during the latest pandemic.



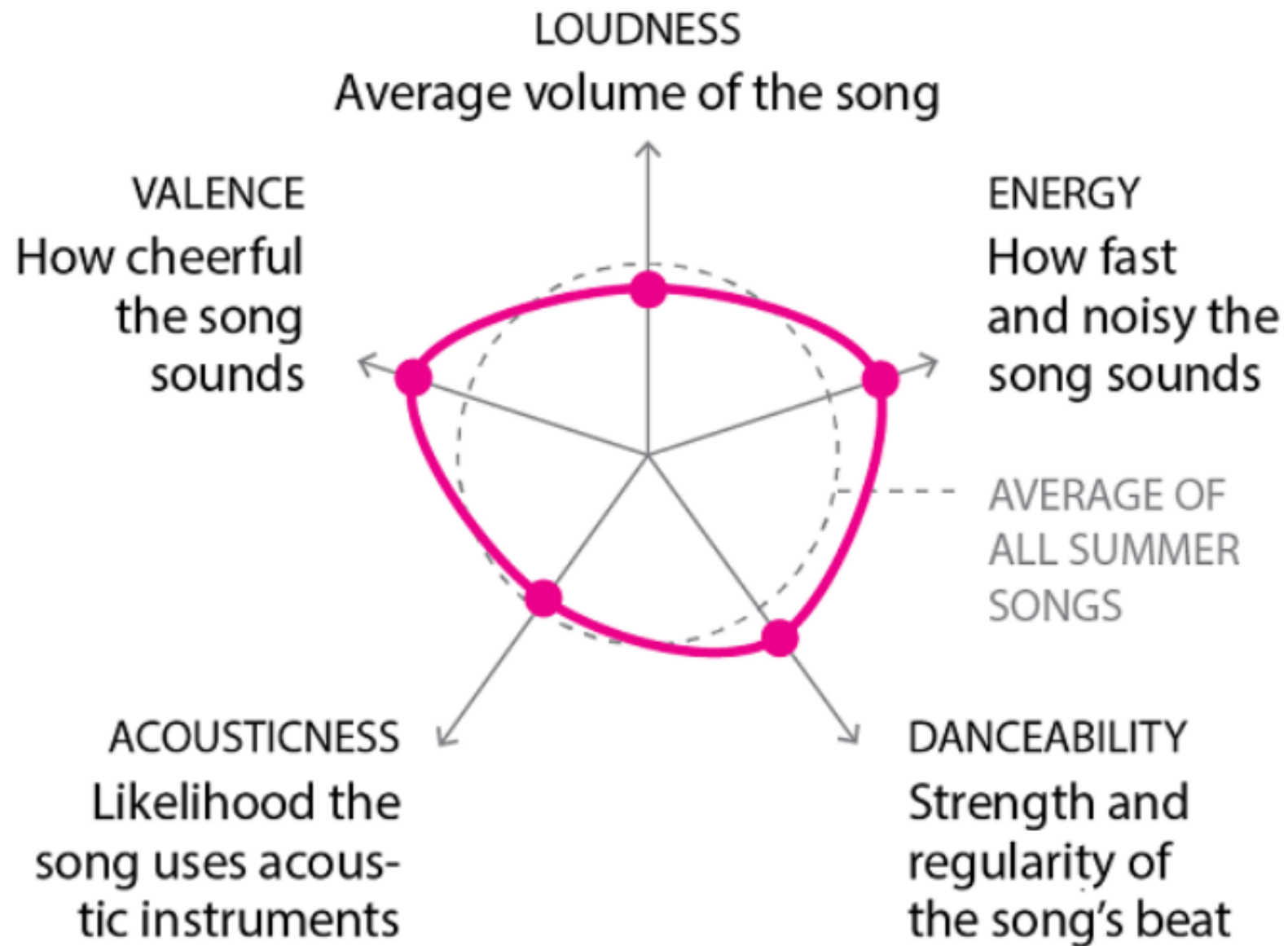
What do you notice?
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One of our favorite manipulatives are Cuisenaire Rods. Here we've created a story of the numbers one through ten.

One Song's Fingerprint

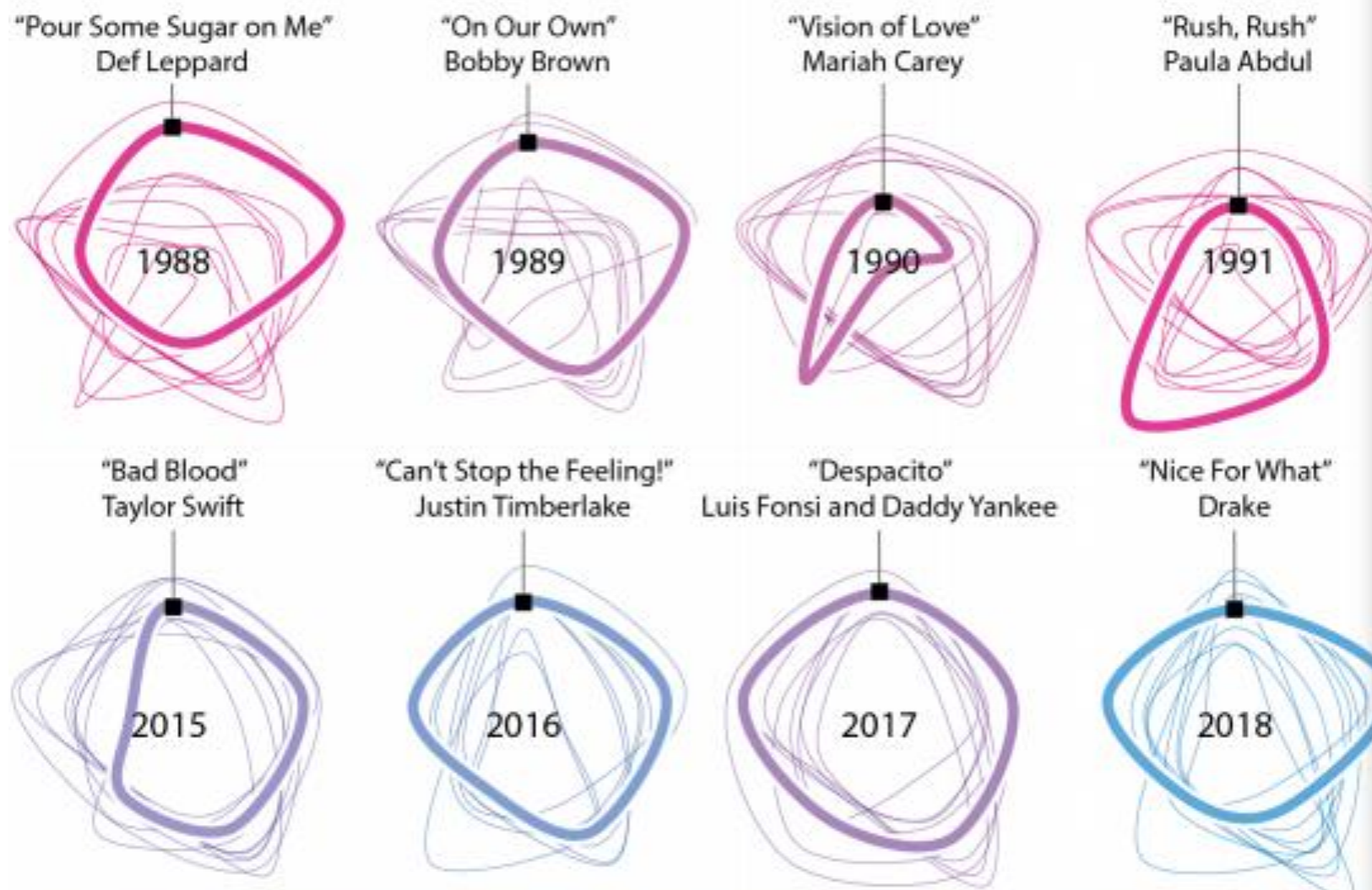
Shown here: "1-2-3" by Gloria Estefan and Miami Sound Machine



Hits are different



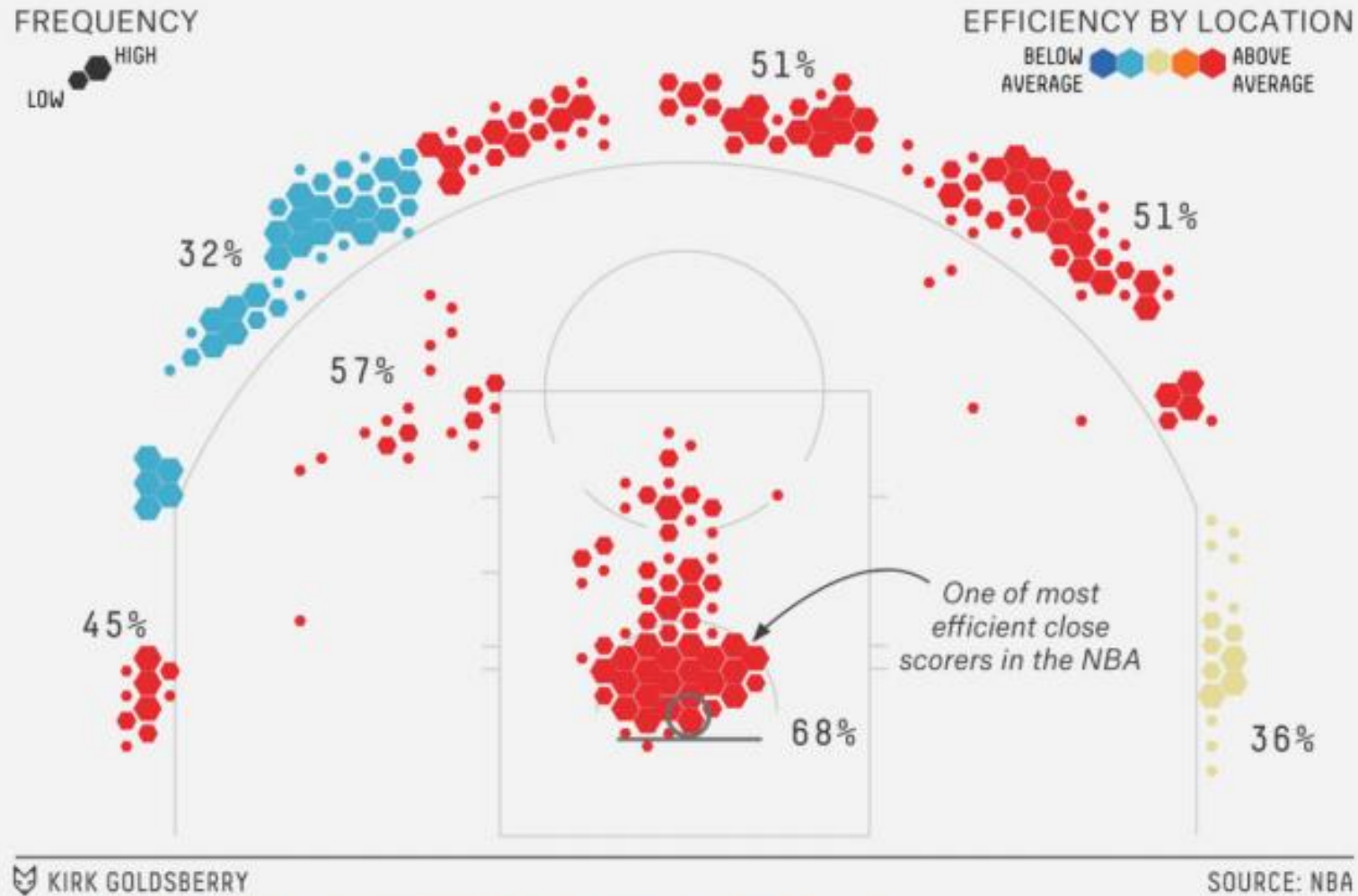
Hits are similar



Each graph represents the top 10 hit songs of the summer. The song that is labeled in each graph is the number one hit of the summer.

Stephen Curry Is One Of The Best

All of his shots, 2015-16 regular season



<https://fivethirtyeight.com/features/stephen-curry-is-the-revolution/>

This is an interesting data visual of the basketball shots of Golden State Warriors player Steph Curry. It gives some helpful information on the places on the court that he finds most success. It may start a good conversation about data collection in different sports.



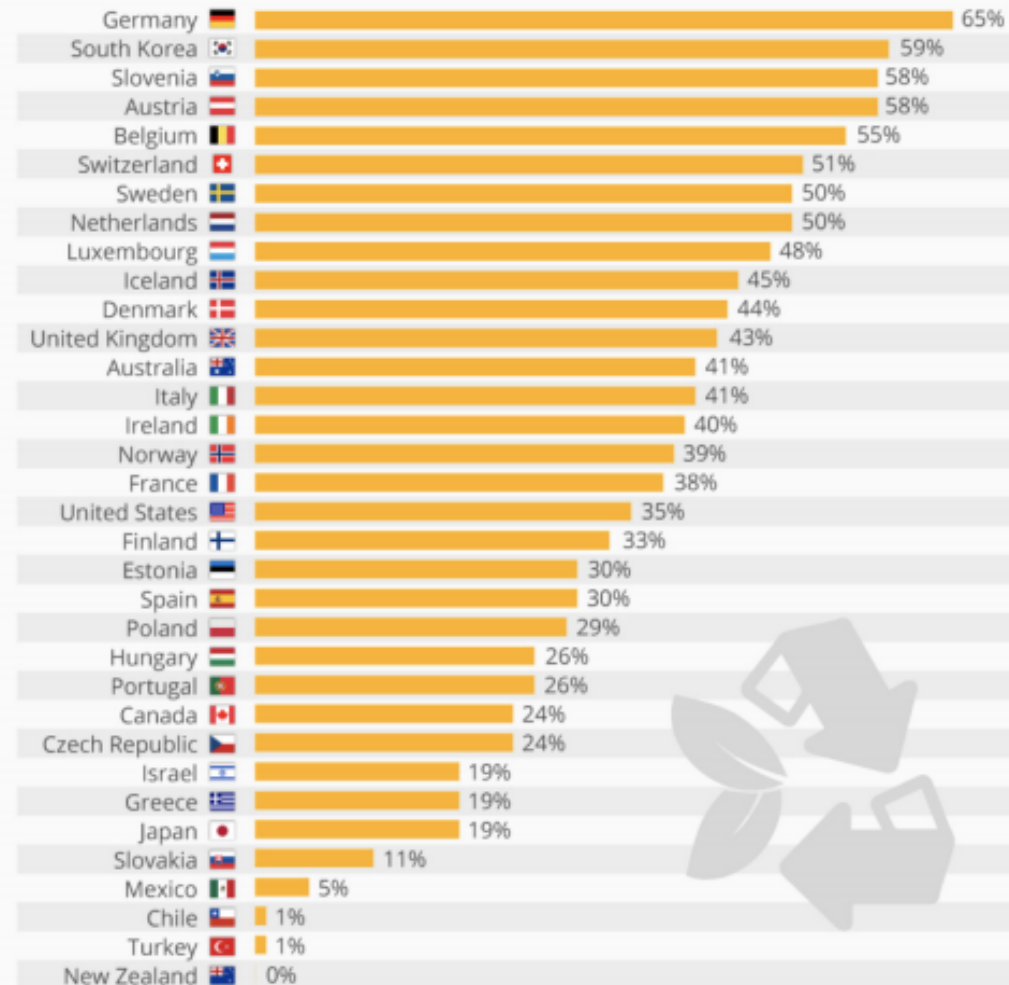
Recycling Race

What do you notice?
What do you wonder?

What is going on in this data visualization?

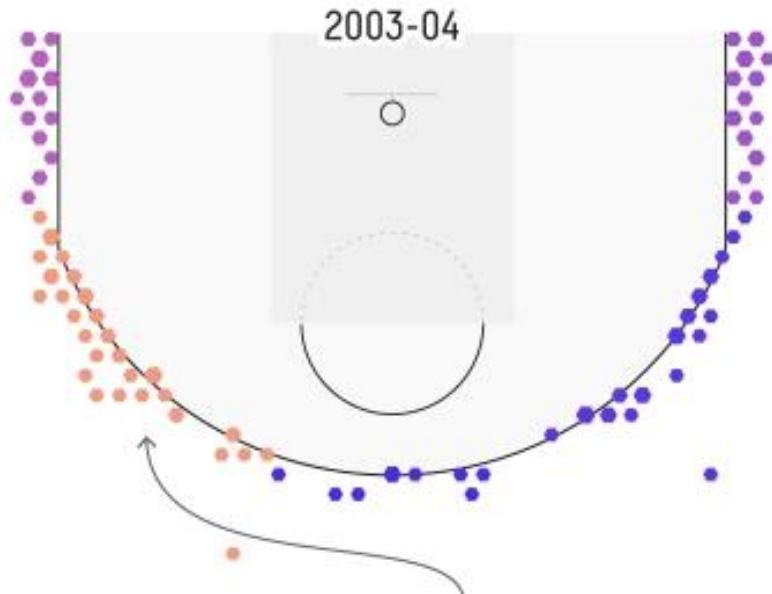
The Countries Winning The Recycling Race

Recycled & composted waste as a share of total municipal waste in OECD countries (2013)

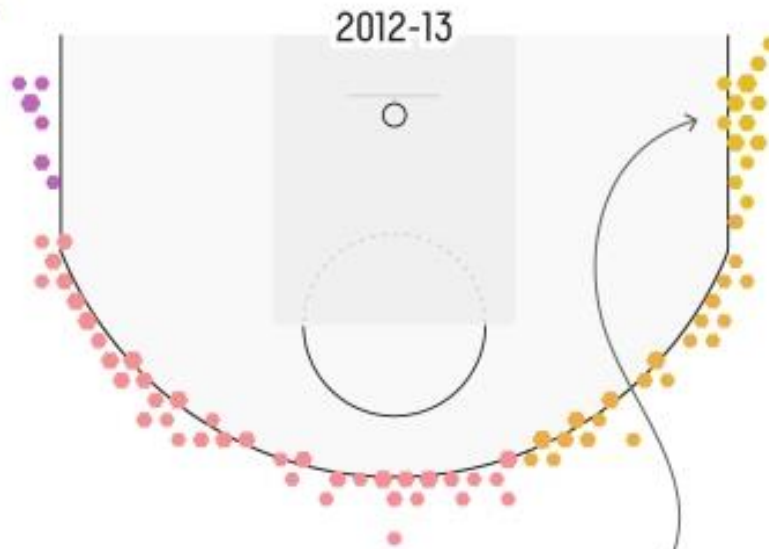


LeBron finds his sweet spots beyond the arc

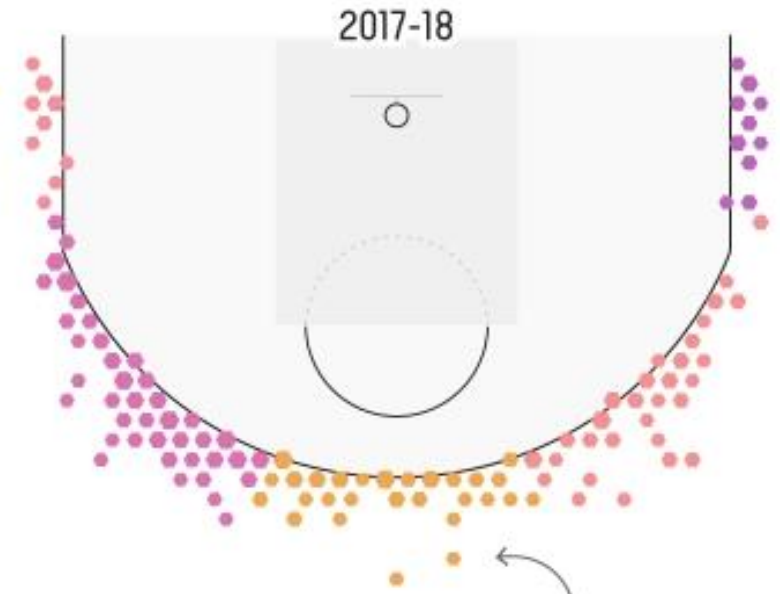
LEBRON JAMES'S 3-POINT PERCENTAGE VS. LEAGUE AVERAGE



Young LeBron struggled above the break his rookie season, but generally shot best from the left wing.



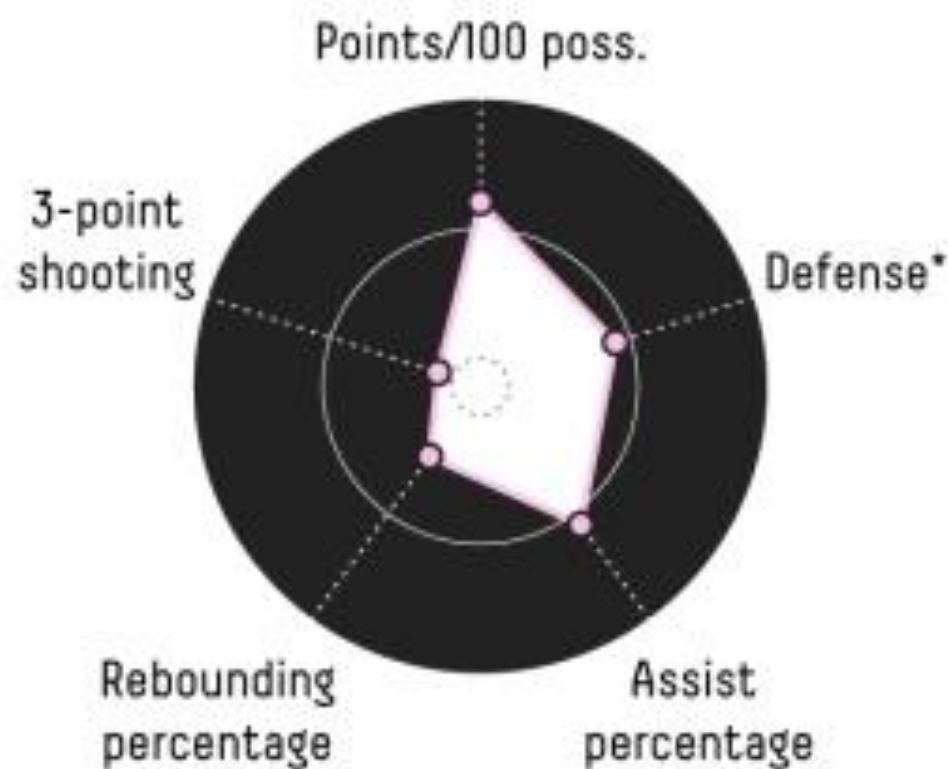
LeBron was strongest from the right corner in the 2012-13 season, his best season in terms of 3-point shooting.



In 2017-18, he sunk 3-pointers from way downtown at a much higher rate than in previous seasons.

LeBron James's performance in
2003-04

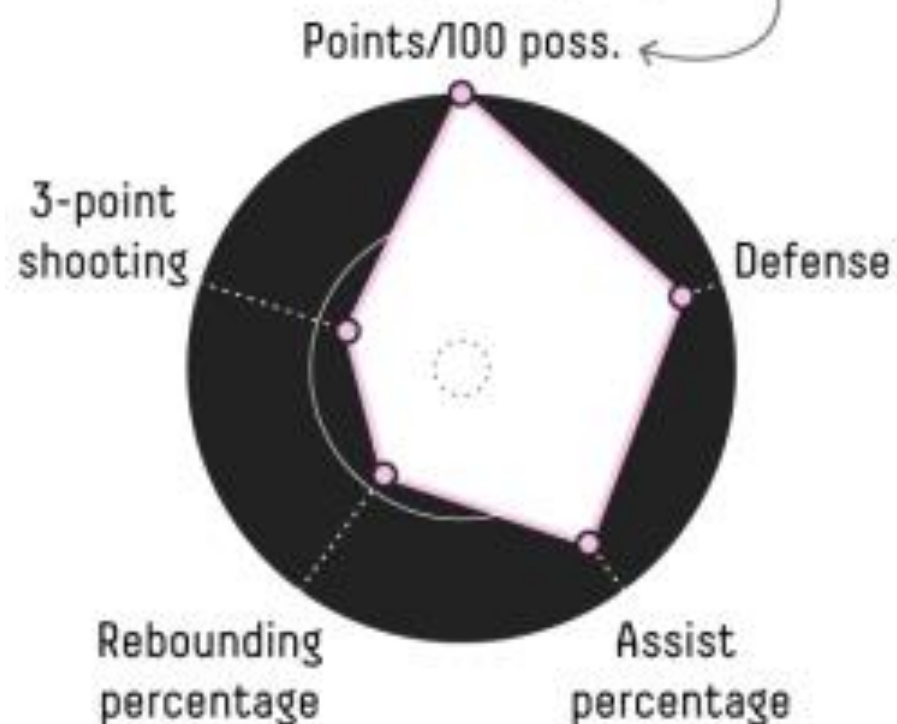
*compared to the best player in
each category from 2003-20*



*According to FiveThirtyEight's
defensive RAPTOR metric.

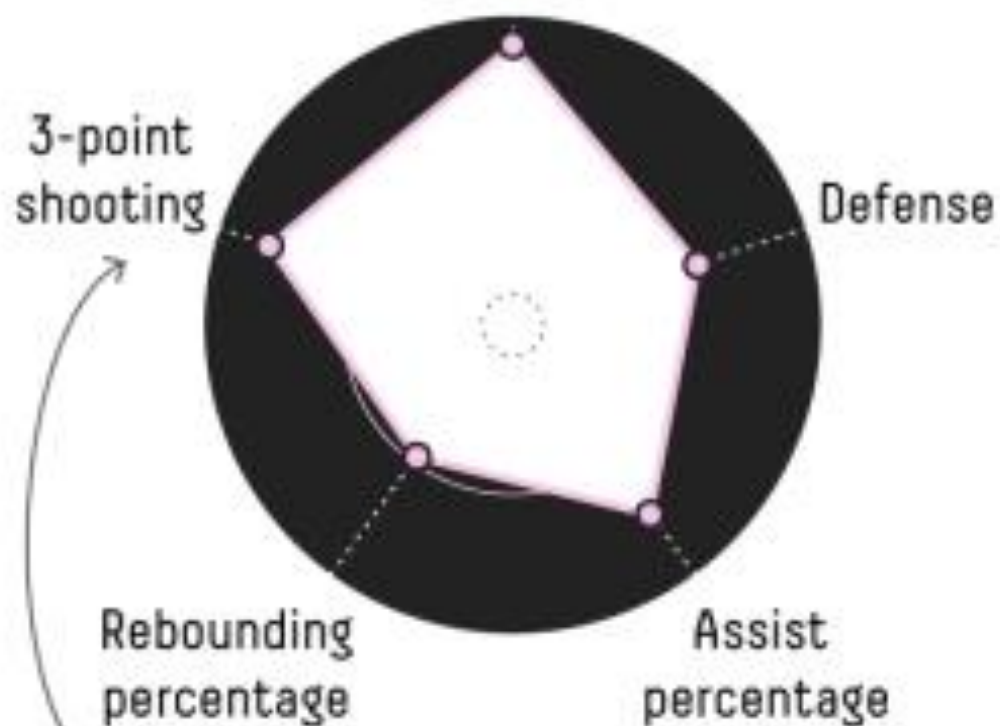
2008-09

LeBron reached his career peak in points per
100 team possessions, surpassing even
the best of the era (Kobe Bryant) that season



2012-13

Points/100 poss.

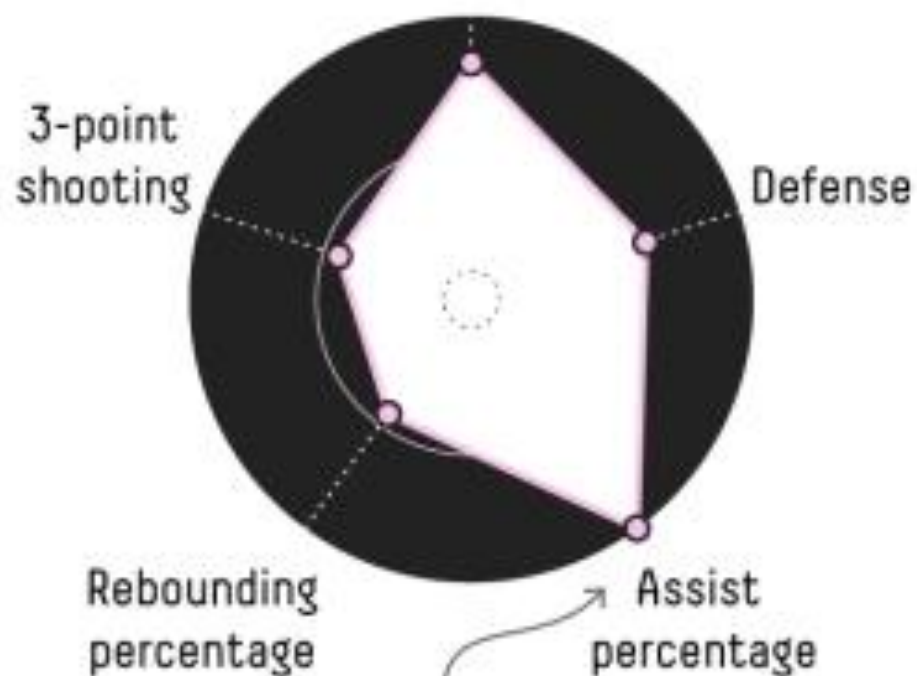


40.6%

LeBron's best 3-point shooting performance in his career so far

2019-20

Points/100 poss.



49.1%

LeBron's best assist percentage in his career so far

SOURCES: NBA ADVANCED STATS, BASKETBALL-REFERENCE.COM

When the KDs come off

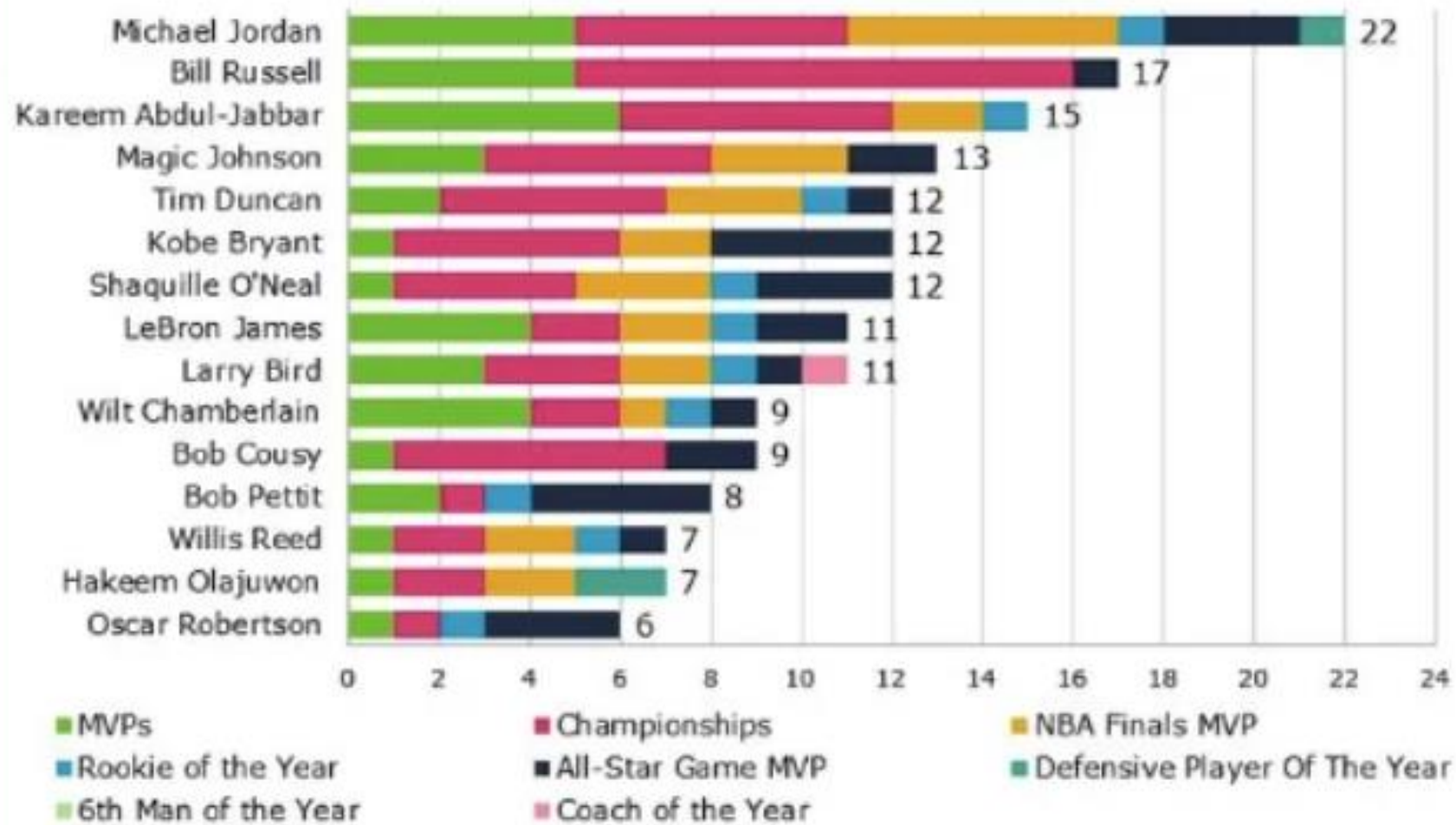
Every time Kevin Durant lost his shoes during a game since the 2015-16 season

 RIGHT  LEFT

	2015-16	2016-17	2017-18
Leaping for a shot or rebound	 	  	    
Someone steps on his shoe	 		   
Getting fouled during a shot			
Collision with another player		 	
Runs out of shoe while planting foot		 	
Going around player or screen	  		

As of May 29, 2018.

Most NBA Trophies All-Time



LeBron's reign near the top has been unbelievably durable

Combined WAR and MVP rankings by season for LeBron James and selected individual competitors, 2005-20

