# Week 3 | Charting data

# Jue Yang, technologist-in-residence Ask me anything!

- 1. https://github.com/jueyang/call-me-maybe
  - 2. https://chatwithjue.slack.com/

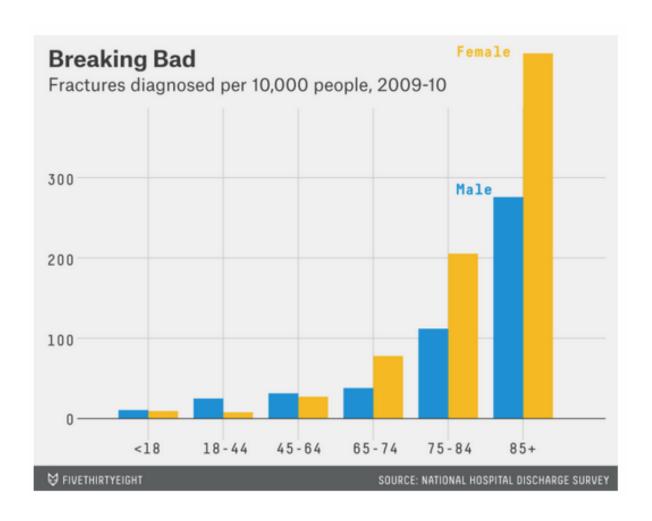
## Basic charts types

• Bar **III** 



• Pie

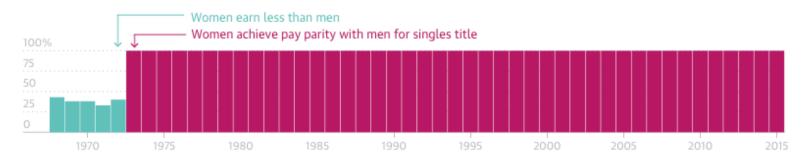
## Bar chart



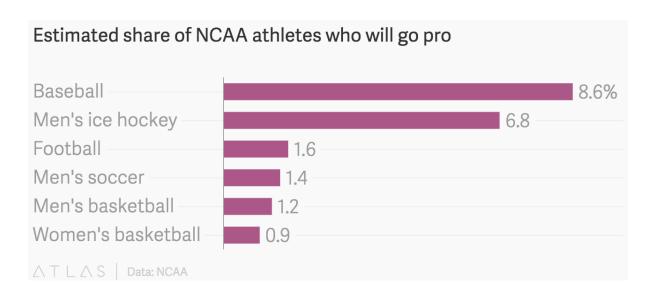
Source: FiveThirtyEight

US Open

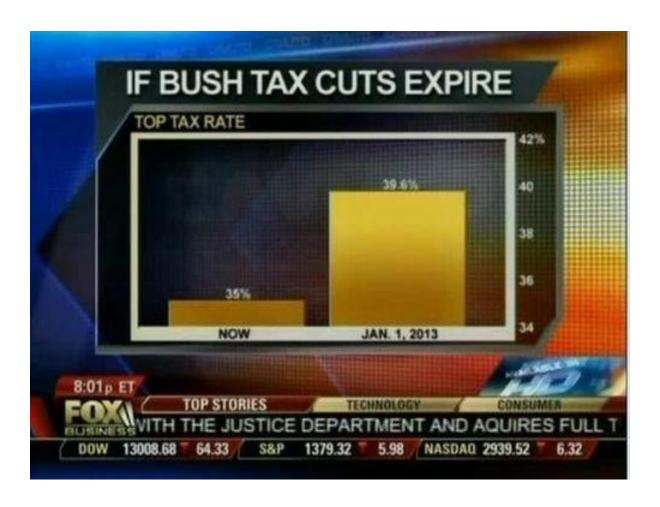
First grand slam to offer equal prize money — 1973



Source: The Guardian



Source: Quartz

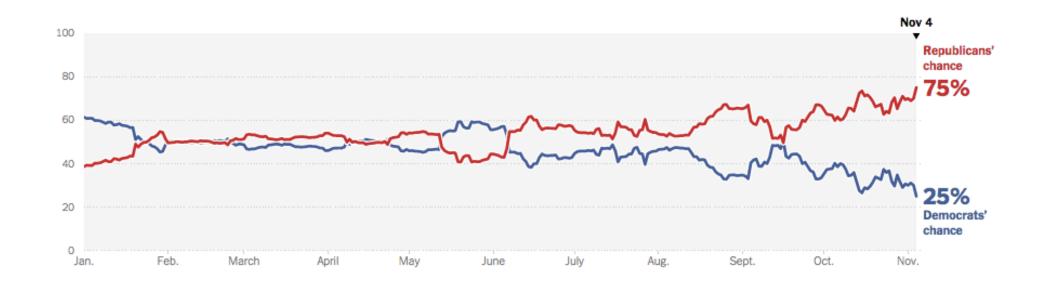


Source: Heap Analytics

## Line chart

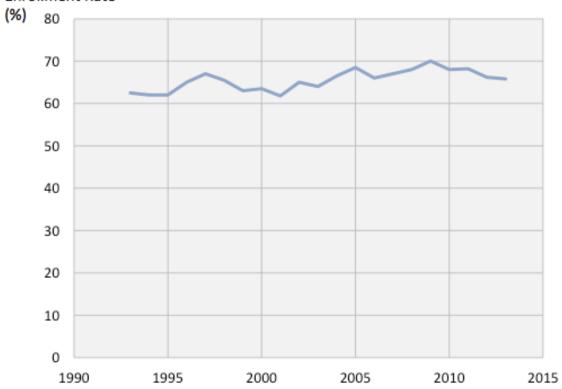


Source: Quartz



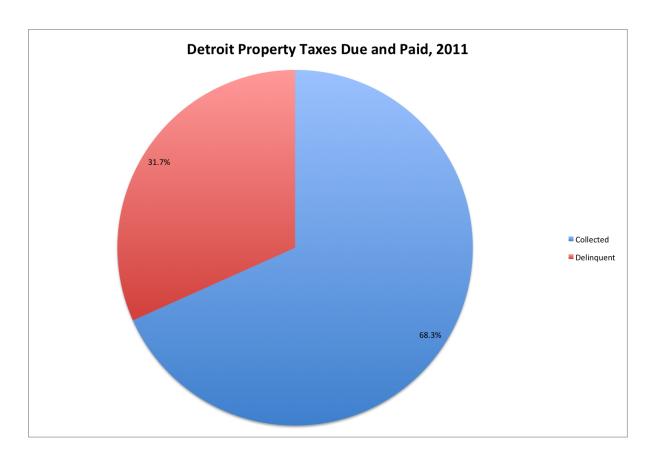
Source: New York Times

#### **Enrollment Rate**



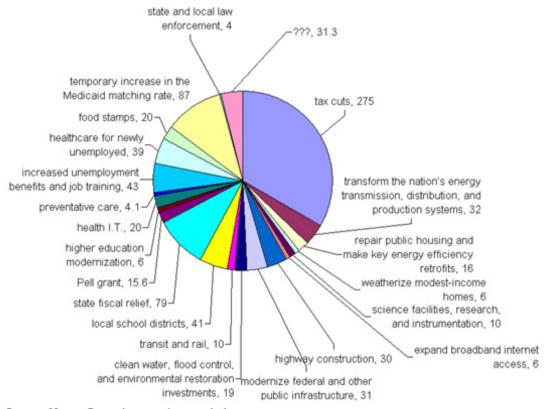
Source: Junk Charts

## Pie chart



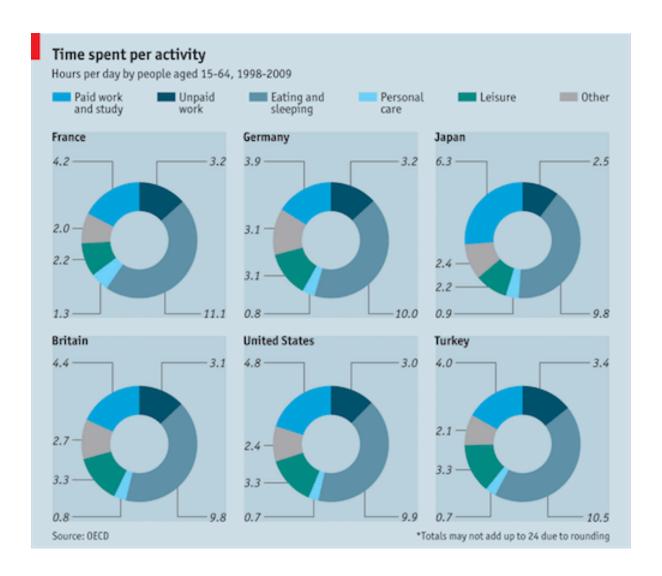
Source: Business Insider

#### Entire Stimulus Package, Billions of Dollars

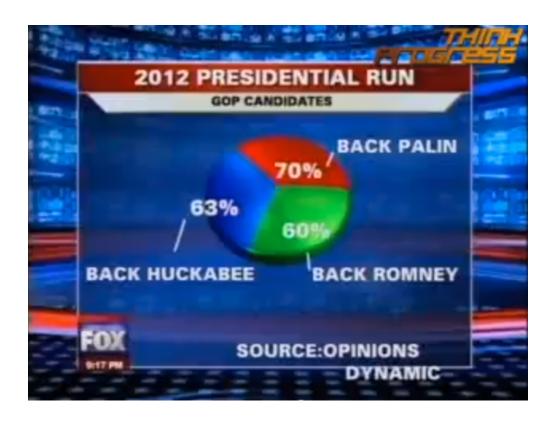


Source: House Committee on Appropriations

Source: New York Times

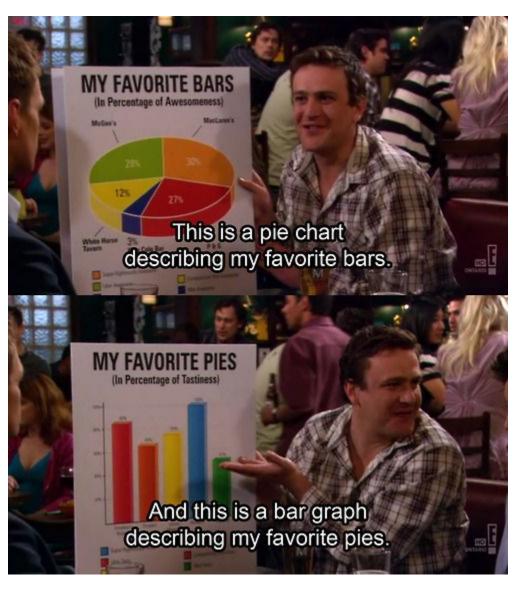


Source: The Economist (via Junk Charts)



Source: Heap Analytics

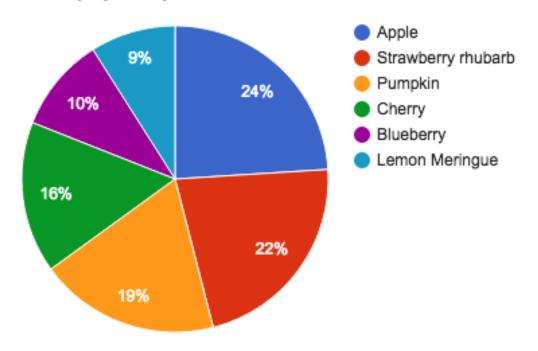
## Choosing the right chart ...

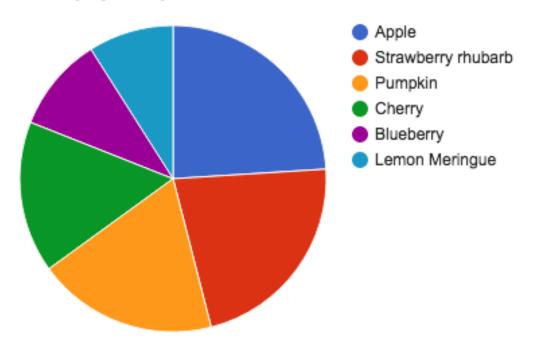


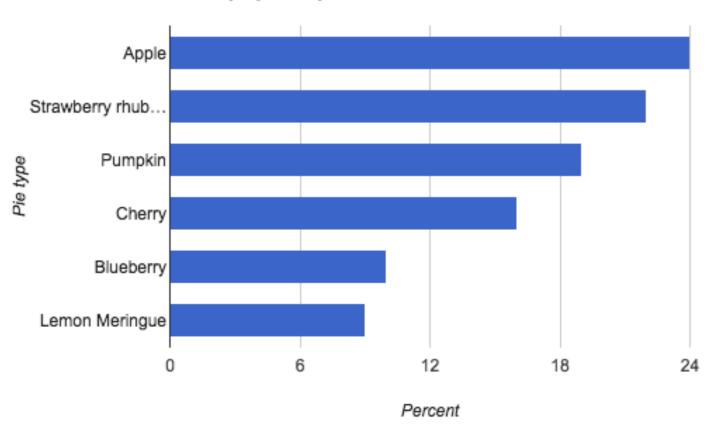
## Let's make a chart (about pie)

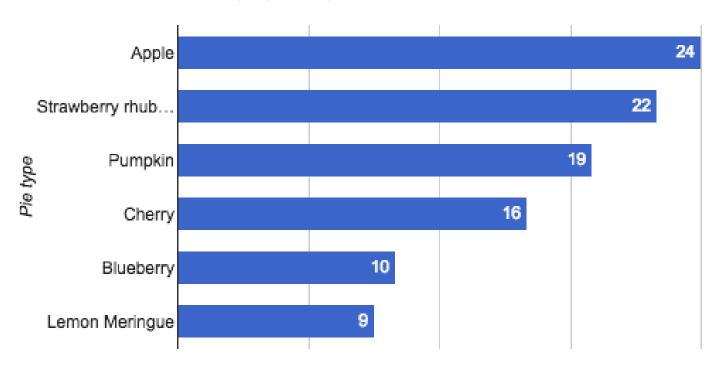
Pie type	Percent
Apple	24
Strawberry rhubarb	22
Pumpkin	19
Cherry	16
Blueberry	10
Lemon Meringue	9

Source: NPR

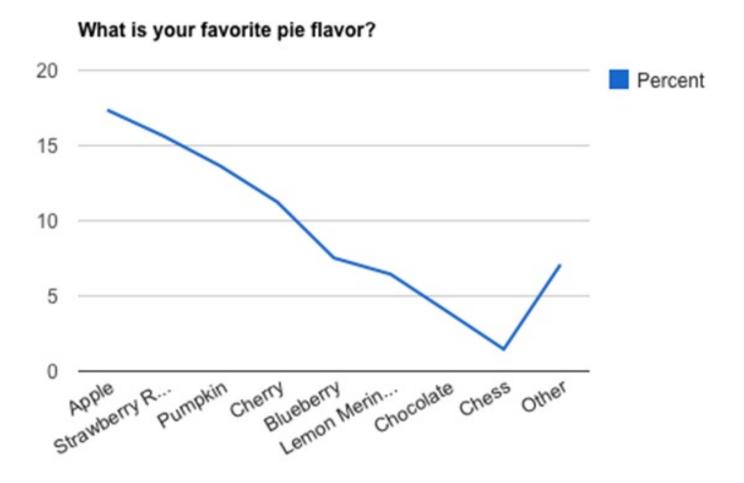








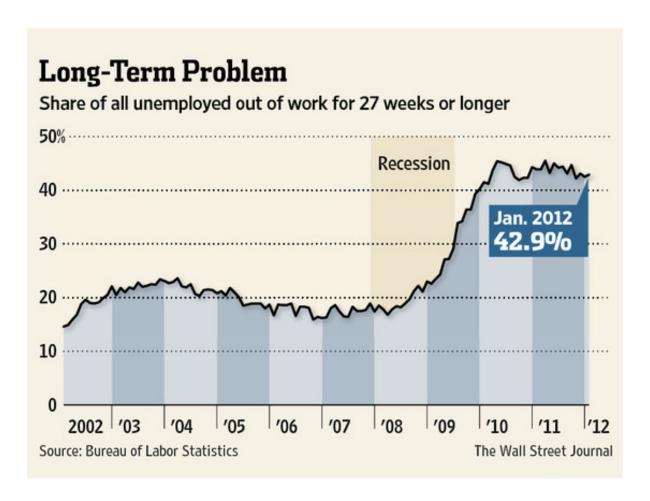
#### What about a line chart?



(Hint: nope)

# Other chart types to keep in mind ... A brief overview

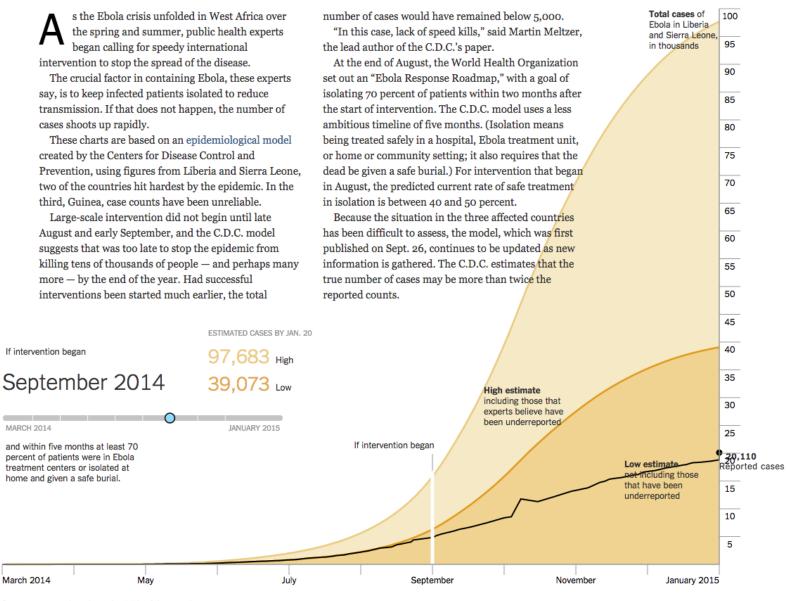
#### Area chart



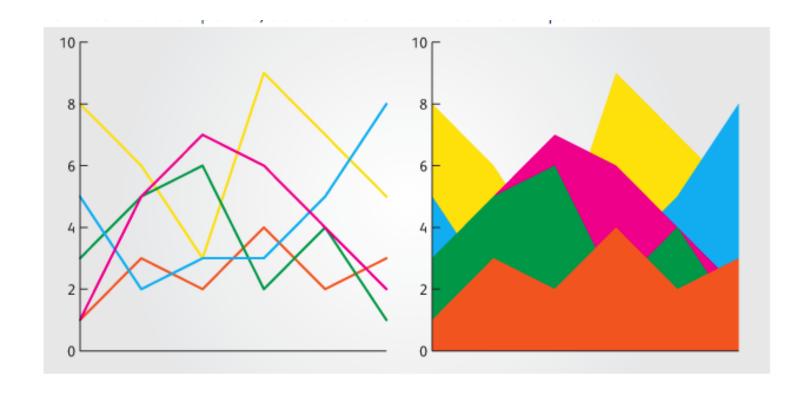
Source: WSJ

#### How the Speed of Response Defined the Ebola Crisis

By ALBERT SUN and HANNAH FAIRFIELD NOV. 3, 2014

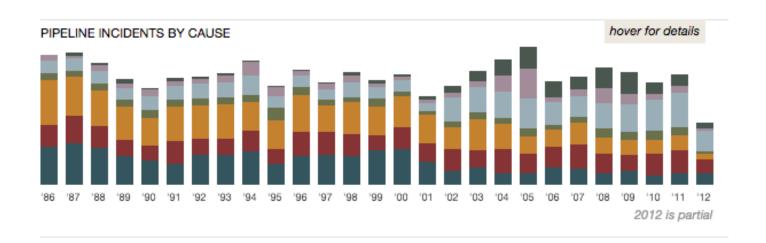


Dates correspond to about the 24th of the month.

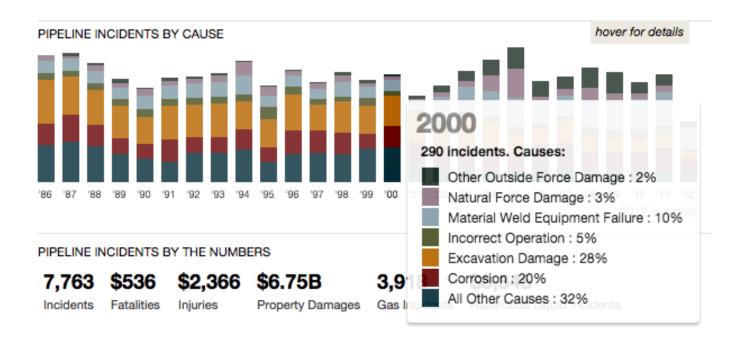


Source: Visual.ly

#### Stacked bar chart

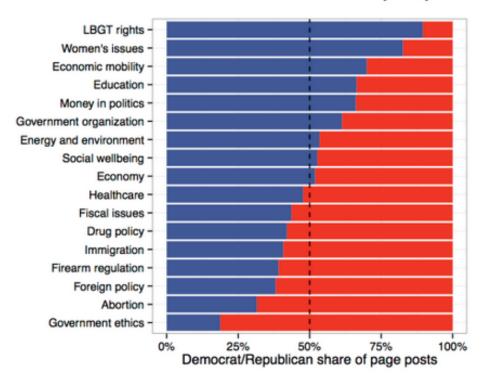


Source: ProPublica



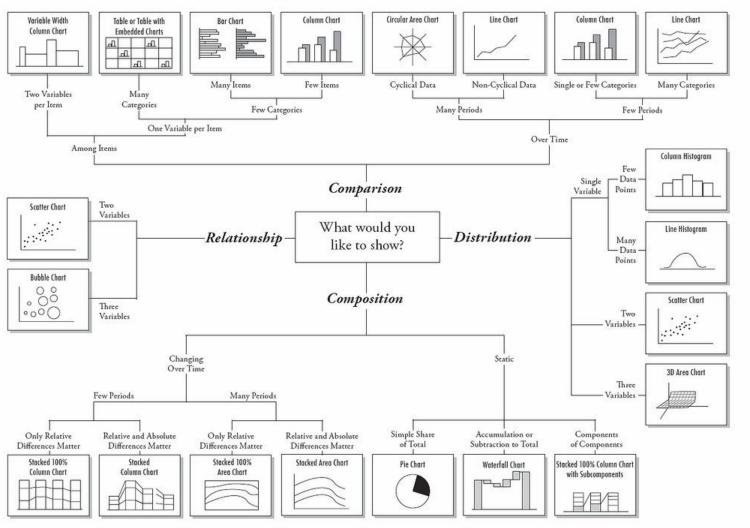
Source: ProPublica

#### Political Issues Discussed by Party



Source: R Bloggers

#### Chart Suggestions—A Thought-Starter



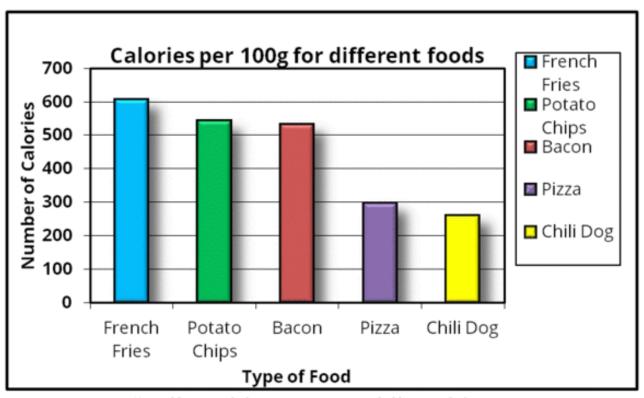
© 2006 A. Abela - a.v.abela@gmail.com

http://flowingdata.com/2009/01/15/flow-chart-shows-you-what-chart-to-use

## Design basics

- Labels and alignment
  - Color
  - Typography

## Remove backgrounds

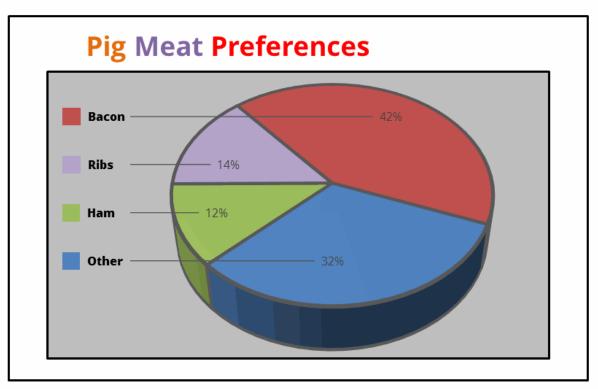


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Go here for working gif

### Remove backgrounds



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#### Remove the Colors

Role	Name	Year of the	Debut	Number of Fans	Takedown Rate
Face (The Hero)	The Ultimate Warrior	Tiger	May-2011	97320.00	86.2
Face (The Hero)	Hulk Hogan	Oxen	Jan-2008	988551.00	61.978
Face (The Hero)	Macho Man Randy Savage	Monkey	Feb-2008	157618.00	59.29
Face (The Hero)	Hacksaw Jim Duggan	Pig	Mar-2008	30300.00	53.4332
Face (The Hero)	Superfly Jimmy Snuka	Dragon	Mar-2008	12341.00	52.7
Heel (The Bad Guy)	Rowdy Roddy Piper	Rooster	Jun-1968	71645.00	45.4
Heel (The Bad Guy)	The Million Dollar Man Ted DiBiase	Rat	Apr-1975	449342.00	43.7689
Heel (The Bad Guy)	Mr. Perfect Curt Henning	Rat	May-1980	13773.00	38
Heel (The Bad Guy)	Jake the Snake Roberts	Snake	Jul-1975	5609.00	37.99
Jobber (The Unknown)	Brad Smith	Sheep	Aug-2008	1103.00	36.316
Jobber (The Unknown)	Ted Duncan	Sheep	Aug-2008	200.00	33.61
Jobber (The Unknown)	Joey the Uber Nerd Cherdarchuk	Snake	Aug-2008	5.00	21.0196

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www.darkhorseanalytics.com

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## Chartbuilder

https://quartz.github.io/Chartbuilder/

Slides made using Reveal.js