

CGT 270 Data Visualization
Makeover Monday #1 (2018 Dataset)

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Lab section: Thursday 009

Show your work!!!

Acquire

Week: 19

Date: May 7, 2018

Year: 2018

Data: Toughest Sport by Skill

Source Article/Visualization:

ESPN

<https://www.makeovermonday.co.uk/data/data-sets-2018/>

Represent

Degree of Difficulty: Sport Rankings												
SPORT	END	STR	PWR	SPD	AGI	FLX	NER	DUR	HAN	ANA	TOTAL	RANK
Boxing	8.63	8.13	8.63	6.38	6.25	4.38	8.88	8.50	7.00	5.63	72.375	1
Ice Hockey	7.25	7.13	7.88	7.75	7.63	4.88	6.00	8.25	7.50	7.50	71.750	2
Football	5.38	8.63	8.13	7.13	6.38	4.38	7.25	8.50	5.50	7.13	68.375	3
Basketball	7.38	6.25	6.50	7.25	8.13	5.63	4.13	7.75	7.50	7.38	67.875	4
Wrestling	6.63	8.38	7.13	5.13	6.38	7.50	5.00	6.75	4.25	6.38	63.500	5
Martial Arts	5.00	5.88	7.75	6.38	6.00	7.00	6.63	5.88	6.00	6.88	63.375	6
Tennis	7.25	5.13	7.13	6.75	7.75	5.63	3.00	5.00	8.38	6.75	62.750	7
Gymnastics	5.38	6.13	6.63	5.00	6.38	10.00	7.50	6.88	4.50	4.13	62.500	8
Baseball/Softball	4.63	5.75	7.63	6.50	6.75	4.75	5.13	5.63	9.25	6.25	62.250	9
Soccer	7.75	4.50	5.13	7.25	8.25	4.75	3.63	6.25	6.50	7.50	61.500	10
Skating: Alpine	5.13	5.25	6.00	7.38	6.13	5.63	8.38	6.00	5.13	5.63	60.625	11
Water Polo	7.88	6.63	6.88	5.38	6.38	5.00	4.25	6.38	6.25	5.63	60.625	11
Rugby	7.75	7.00	6.00	5.88	6.00	4.13	6.50	7.88	4.38	6.00	60.375	13

Critique

I like that this visualization is very clear on the answer to the question, meaning that I can clearly see by looking at the rank column that Boxing is the most difficult which answers the question. However what I don't like is that it's in a table so there isn't even really a visualization, also for some reason there is a page tearing effect at the bottom that cuts off most of the sports. Furthermore, there is almost no color differences and the ones that are present don't add to the visualization at all and there are lots of values to look at. Some of the abbreviations may not make sense to people that aren't very familiar with exercise and sports in general like NER or AGI.

Mine

The goal of this dataset is to answer the question of which sport is the toughest in terms of skill, considering many factors such as strength and endurance? Since there is so much data, I'm going to change that to what are the easiest and hardest ten sports to play in terms of skill?

Filter

Show (display, list, make it visible) the filtered data.

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Below is the data only including the total with the ten smallest values.

Sport	Endurance	Strength	Power	Speed	Agility	Flexibility	Nerve	Durability	Hand-Eye	Analytical	Total	Rank
Golf	3.25	3.88	6.13	1.63	1.75	4	2.5	2.38	6	6.38	37.875	1
Cheerlead	3.63	3.63	3.38	2.25	4.13	7.5	3.63	3.38	2.5	2.25	36.25	2
Roller Ska	4.75	3.38	4	5.13	4	3.5	2.63	3.38	2.88	2.63	36.25	3
Equestrian	3.38	3.25	1.75	1.25	2.5	2.88	6	2.75	2.88	5.13	31.75	4
Archery	2.88	4.5	3.13	1.13	1.63	2.63	2.75	2.13	6.63	3.25	30.625	5
Curling	2.25	2.63	2.5	1.5	2.25	2.63	1.75	1.5	4.88	5.63	27.5	6
Bowling	2.25	2.75	3.38	1	1.88	2.38	1.63	1.25	4.75	4.13	25.375	7
Shooting	2.25	2.5	1.38	0.88	1.13	1.75	2.38	1.88	6.75	4	24.875	8
Billiards	1	1	1.75	0.75	1	2.63	1.63	0.75	5.25	5.75	21.5	9
Fishing	1.38	1.63	1.25	0.63	1.5	1.13	0.88	0.88	2.38	2.88	14.5	10

Stakeholders

- Who is your audience? My audience is most likely fans of sports, or people debating which sport is the easiest to play.
- What assumptions did you make? I assumed that all the values are equivalent to each other meaning that a 1 in endurance is equivalent to a 1 in strength etc. Another assumption that I made is that the average athlete for each of these sports has his statistics measured.
- What visualization tool/software did you use? Tableau

What to submit: This document in PDF format only (if you do not know how to do this, ask).

Choose the best layout for your makeover visualization

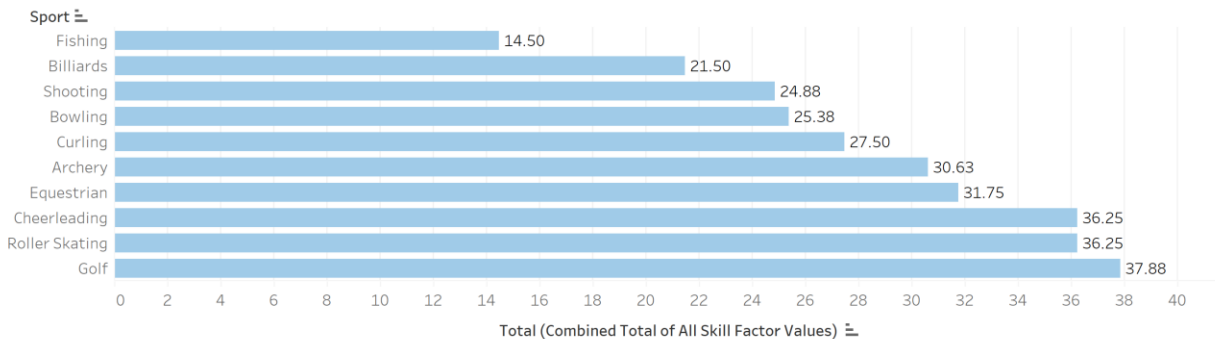
- Portrait or Landscape
- Remove the page of the layout that you DO NOT choose. No blank pages!

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Refine (Makeover – Portrait view)

Use an additional page if necessary. Remember, the purpose of visualization is “insight.” Take and include a screenshot of your visualization and include it below. Use Data Visualization Best Practices (see data visualization checklist).

The 10 Easiest Sports to Play in Terms of Skill (2018)



The 10 Hardest Sports to Play in Terms of Skill (2018)

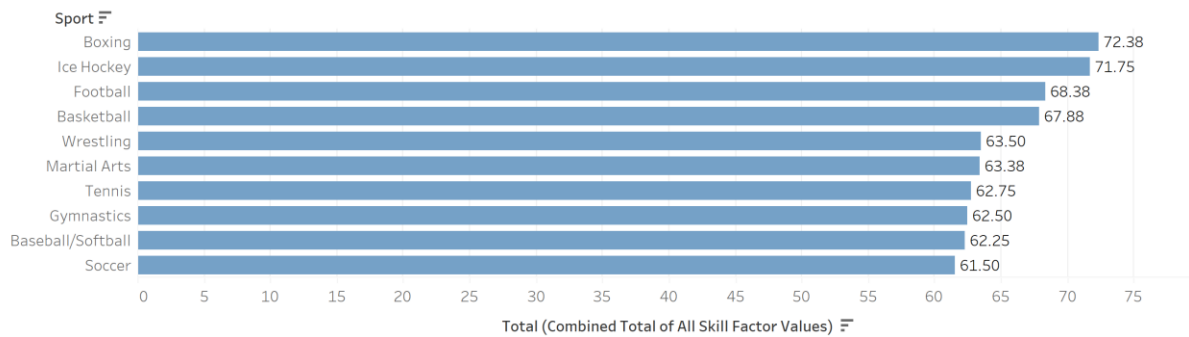


Figure Caption (for both). Above are two graphs displaying the top ten easiest and hardest sports in terms of skill according to a study done in 2018. The values that the ranking is determined by consists of a number of components such as strength and endurance that add to the total difficulty of the given sport.

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Resources

Data Visualization Checklist:

http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist_May2016.pdf

How to give constructive criticism:

<https://personalexcellence.co/blog/constructive-criticism/>

Sample Makeovers

<https://www.makeovermonday.co.uk/gallery/>

Grading Rubric

Excellent (21-25 pts)	Good (10-20 pts)	Fair (5 – 9 pts)	Needs Improvement (0 – 4 pts)
Meets ALL or most of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Meets MOST of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Consistently meets SOME of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization),	Little to no evidence of the understanding of the data visualization process. Lackluster makeover or no makeover. Little effort.

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		assumptions (more than one) are listed.	
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