제1장 왜 R인가?

2020-01-01 오후 1:00에 김대호이(가) 수정

1. World's Most Valuable Brands (2019)

Brand Finance®

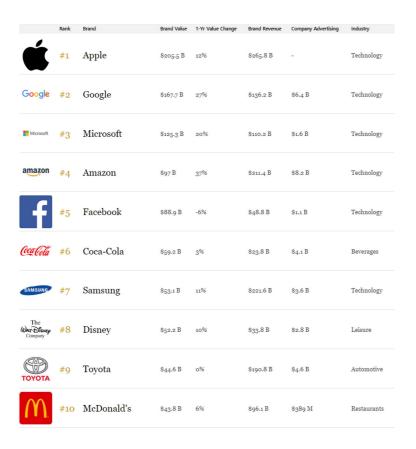
Brandirectory

2019	2018	Logo	Name	Country	2019	2018	2019	2018
1	1	amazon	Amazon	•	\$187,905M	\$150,811M	ΔΔΔ-	ΑΑΑ-
2	2	É	Apple	=	\$153,634M	\$146,311M	AAA	ΔΔΔ+
3	3	Google	Google		\$142,755M	\$120,911M	AAA	ΑΑΑ+
4	6	Microsoft	Microsoft		\$119,595M	\$81,163M	ΑΑΑ	ΔΔΔ+
5	4	SAMSUNG	Samsung Group	(0)	\$91,282M	\$92,289M	ΔΔΔ-	ΔΔΔ+
6	5	S AT&T	AT&T		\$87,005M	\$82,422M	ΔΔ+	ΑΑΑ-
7	7	f	Facebook		\$83,202M	\$76,526M	ΔΑΑ-	ΑΑΑ+
8	10	ICBC 🔢	ICBC	****	\$79,823M	\$59,189M	ΔΔΔ+	ΔΔΔ+
9	8	verizon/	Verizon		\$71,154M	\$62,826M	ΑΑΑ	ΔΔΔ-
10	11	C COMMINSCRIPT	China Construction Bank	-	\$69,742M	\$56,789M	AAA	AAA
11	9	Walmart 🌟	Walmart	=	\$67,867M	\$61,480M	ДД+	AA+
12	25	MULANCO	Huawei	-	\$62,278M	\$38,046M	ΑΑΑ-	ΑΑΑ-
13	13	Merculo foss	Mercedes-Benz	-	\$60,355M	\$47,936M	ΔΔΔ-	ΑΑ+
14	29	中国平安 PING AN	Ping An		\$57,626M	\$32,609M	ΔΔΔ-	ΔΔΔ-
15	12	◆回移动 China Mobile	China Mobile	*****	\$55,670M	\$53,226M	AAA	ΔΔΔ
16	26	8 781883	Agricultural Bank Of China	-	\$55,040M	\$37,321M	AAA	AAA
17	15	TOHOTA	Toyota	•	\$52,291M	\$43,701M	AAA	ΑΑΑ-
18	18	# #####	State Grid	*2	\$51,292M	\$40,944M	ΔΔ+	ΔΔ+
19	17	(Bank of China	*****	\$50,990M	\$41,750M	AAA	ΑΑΑ
20	47	%	WeChat	-	\$50,707M	\$22,415M	ΑΑΑ+	AAA
21	20	<u>.</u>	Tencent (QQ)	****	\$49,701M	\$40,774M	AAA	ΔΔΔ
22	27	<i>11</i>	Home Depot	=	\$47,056M	\$33,748M	ΔΔΔ-	ΔΑΑ-
23		淘宝网 Taobao.com	Taobao	*******	\$46,628M		AAA-	
24	21	T ··Mobile·	T (Deutsche Telekom)	-	\$46,259M	\$40,152M	ΔΔΔ-	ΑΑ+
25	30	the they Curper	Walt Disney	-	\$45,750M	\$32,590M	ΑΑΑ	ΔΔΔ+

Forbes The World's Most Valuable Brands

The World's Most Valuable Brands

(2019)



- 10년전과 비교해 보면 어떤 차이가 있을까요?
- 지금으로부터 10년 전인, 2007년 글로벌 컨설팅 그룹 '인터브랜드'에 서 발표한 순위에 따르면
 - **1위 코카콜라, 2위 Microsoft, 3위 IBM, 4위 GE, 5위 NOKIA** 를 선두로 **Toyota, Intel, McDonald's, Disney, Benz**가 그 뒤를 이었습니다. 10년 사이에 정말 많은 변화가 생겼죠?
- 브랜드의 가치는 결코 멈춰 있거나 영원하지 않습니다. 계속해서 가치가 올라온 브랜드, 또는 하락한 브랜드, 그리고 언제나 선두를 지켜왔던 브랜드들 모두 각자의 전략을 가지고 변화를 맞이하였을 것입니다.
- 출처: <<u>https://brandambassador.life/ko/kr/post/brandvalue2017</u>>

2. Top Programming Language

1) IEEE Spectrum



2) Hackernoon (August, 2017)



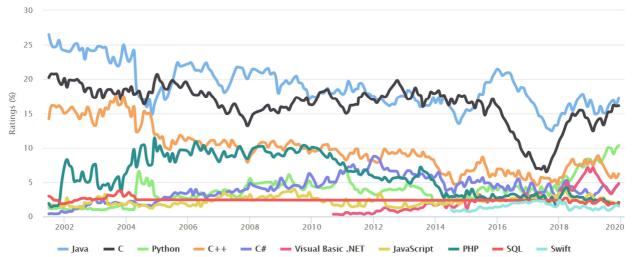


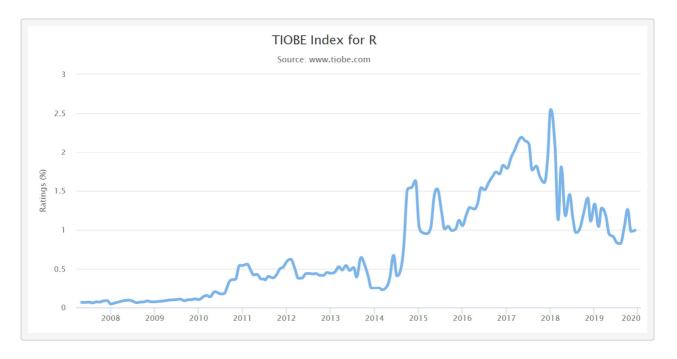
3) TIOBE Index for Dec. 2019

Dec 2019	Dec 2018	Change	Programming Language	Ratings	Change
1	1		Java	17.253%	+1.32%
2	2		С	16.086%	+1.80%
3	3		Python	10.308%	+1.93%
4	4		C++	6.196%	-1.37%
5	6	^	C#	4.801%	+1.35%
6	5	•	Visual Basic .NET	4.743%	-2.38%
7	7		JavaScript	2.090%	-0.97%
8	8		PHP	2.048%	-0.39%
9	9		SQL	1.843%	-0.34%
10	14	*	Swift	1.490%	+0.27%
11	17	*	Ruby	1.314%	+0.21%
12	11	•	Delphi/Object Pascal	1.280%	-0.12%
13	10	•	Objective-C	1.204%	-0.27%
14	12	•	Assembly language	1.067%	-0.30%
15	15		Go	0.995%	-0.19%
16	16		R	0.995%	-0.12%
17	13	*	MATLAB	0.986%	-0.30%
18	25	*	D	0.930%	+0.42%
19	19		Visual Basic	0.929%	-0.05%
20	18	•	Perl	0.899%	-0.11%

TIOBE Programming Community Index

Source: www.tiobe.com

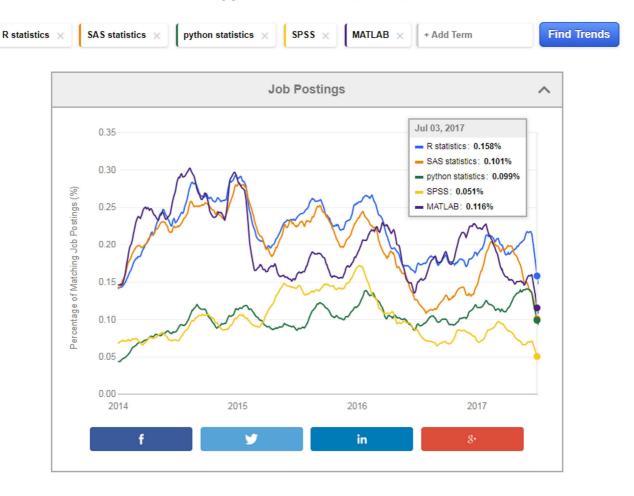




3. R statistics, SAS statistics, and python statistics Job Trends



R statistics, SAS statistics, python statistics, SPSS, and MATLAB Job Trends



4. List of Big Companies using R (July 22, 2017)



The continuous popularity and growth of R Programming Language has been helping data-driven companies succeed for more than a decade. In recent years, almost every industry sees data and analytics as a strategic competitive advantage. And R is the language of choice for many data scientist and data analyst. According to O'Reilly's 2016 data science salary survey, R was in second position in the category of programming languages for data science while SQL ranked first.

On the other hand, according to another popular *survey KDnuggets Analytics/Data Science 2016 Software Poll: top 10 most popular tools in 2016*, R got top rank with 49% vote.

