

Metrics of successful websites and companies

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Contents

1	Introduction	3
2	Data gathering	4
2.1	Data Source - Fortune 500	4
2.2	Metrics	5
2.3	Python	5
2.4	Scripts	5
2.4.1	Fortune data	5
2.4.2	Html download	5
2.4.3	Social media existence	5
2.4.4	Readability index	5
2.4.5	5
3	Data Analysis	6
3.1	Data loading	6
3.2	R	6
3.3	Scripts	6
3.3.1	Statistical Analysis	6
3.3.2	Regression Model	6
3.3.3	Clustering	6
4	Conclusions	7
5	Bibliography	8
A		
	Appendix A: Fortune 500 Companies	9

1 Introduction

An on-line presence of a company was not an important factor of its success until a few years ago. Taking although into account the vast spread of the impact that internet has on consumers regarding their choices this hypothesis is not valid any more. Companies are obliged by the trends to be active on-line and to maintain a website that depicts the image they want their consumers to perceive. The purpose of this paper is to understand the relationship that exists between the website of a company and its success. Trying to comprehend this relationship a comparison will take place between specific metrics of the websites of the Fortune's 500 more successful companies and their financial status. By performing regression models and statistical analysis this paper will try to explore which metrics of a company's website influence its success.

2 Data gathering

The first step in order to contact this research is to conclude to the companies that are going to be examined. Since the purpose of this paper is to see if the website metrics that will be examined are influencing the success of the company it is a good idea to examine websites of some already successful companies and try to find out what they have in common.

2.1 Data Source - Fortune 500

The Fortune 500 is an annual list compiled and published by Fortune magazine that ranks 500 of the largest U.S. corporations by total revenue for their respective fiscal years. The list includes public companies, along with privately held companies for which revenues are publicly available.[1, 2]

For the purposes of this paper we will use this list of companies and we will examine their websites in order to understand if they indeed have something in common or if their success is irrelevant with their on-line presence.

The first thing that we will need is a list of the names that are include in the fortune 500. The easiest way to obtain this list is from the following article: <http://www.zyxware.com/articles/4344/list-of-fortune-500-companies-and-their-websites>. The way that we will obtain the list will be explained in the 2.4 Scripts section of this chapter. In the following table one can see the 50 most succesful companies that are included in the Fortune 500 during the period this paper is taking place. The rest of the list is available in the Appendix A.[3]

Table 1: Fortune 500 - 50 first companies

1. Walmart	2. Exxon Mobil	3. Apple
4. Berkshire Hathaway	5. McKesson	6. UnitedHealth Group
7. CVS Health	8. General Motors	9. Ford Motor
10. AT&T	11. General Electric	12. AmerisourceBergen
13. Verizon	14. Chevron	15. Costco
16. Fannie Mae	17. Kroger	18. Amazon.com
19. Walgreens Boots Alliance	20. HP	21. Cardinal Health
22. Express Scripts Holding	23. J.P. Morgan Chase	24. Boeing
25. Microsoft	26. Bank of America Corp.	27. Wells Fargo
28. Home Depot	29. Citigroup	30. Phillips 66
31. IBM	32. Valero Energy	33. Anthem
34. Procter & Gamble	35. State Farm Insurance Cos.	36. Alphabet
37. Comcast	38. Target	39. Johnson & Johnson
40. MetLife	41. Archer Daniels Midland	42. Marathon Petroleum
43. Freddie Mac	44. PepsiCo	45. United Technologies
46. Aetna	47. Lowe's	48. UPS
49. AIG	50. Prudential Financial	

2.2 Metrics

Now that we have declared the companies that we are going to use we will also need to decide which metrics are we going to examine for each site.

2.3 Python

A few words about the language i used and why

2.4 Scripts

With what codes did I downloaded the metrics I needed

2.4.1 Fortune data

With what codes did I downloaded the metrics I needed

2.4.2 Html download

With what codes did I downloaded the metrics I needed

2.4.3 Social media existence

With what codes did I downloaded the metrics I needed

2.4.4 Readability index

With what codes did I downloaded the metrics I needed

2.4.5 ...

With what codes did I downloaded the metrics I needed

Note Write the sites I needed and see where to put the codes

3 Data Analysis

To see the other commands in action, suppose at this point of text I type

3.1 Data loading

What metrics I needed to download

3.2 R

A few words about the language i used and why

3.3 Scripts

With what codes did I downloaded the metrics I needed

3.3.1 Statistical Analysis

With what codes did I downloaded the metrics I needed

3.3.2 Regression Model

With what codes did I downloaded the metrics I needed

3.3.3 Clustering

With what codes did I downloaded the metrics I needed

4 Conclusions

5 Bibliography

References

- [1] *<https://en.wikipedia.org/wiki/Fortune500>*
- [2] *<http://beta.fortune.com/fortune500>*
- [3] *<http://www.tablesgenerator.com/>*

A

Appendix A: Fortune 500 Companies

Table 2: Fortune 500 - Companies Ranked: 51 - 100

51. Intel	52. Humana	53. Disney
54. Cisco Systems	55. Pfizer	56. Dow Chemical
57. Sysco	58. FedEx	59. Caterpillar
60. Lockheed Martin	61. N.Y. Life Insurance	62. Coca-Cola
63. HCA Holdings	64. Ingram Micro	65. Energy Transfer Equity
66. Tyson Foods	67. American Airlines Group	68. Delta Air Lines
69. Nationwide	70. Johnson Controls	71. Best Buy
72. Merck	73. Liberty Mutual I.G.	74. Goldman Sachs Group
75. Honeywell International	76. Massachusetts Mutual L.I.	77. Oracle
78. Morgan Stanley	79. Cigna	80. U.C. Holdings
81. Allstate	82. TIAA	83. INTL FCStone
84. CHS	85. American Express	86. Gilead Sciences
87. Publix Super Markets	88. General Dynamics	89. TJX
90. ConocoPhillips	91. Nike	92. World Fuel Services
93. 3M	94. Mondelez International	95. Exelon
96. Twenty-First Century Fox	97. Deere	98. Tesoro
99. Time Warner	100. Northwestern Mutual	

Table 3: Fortune 500 - Companies Ranked: 101 - 150

101. DuPont	102. Avnet	103. Macy's
104. Enterprise Products Partners	105. Travelers Cos.	106. Philip Morris International
107. Rite Aid	108. Tech Data	109. McDonald's
110. Qualcomm	111. Sears Holdings	112. Capital One Financial
113. EMC	114. USAA	115. Duke Energy
116. Time Warner Cable	117. Halliburton	118. Northrop Grumman
119. Arrow Electronics	120. Raytheon	121. Plains GP Holdings
122. US Foods Holding	123. AbbVie	124. Centene
125. Community Health Systems	126. Alcoa	127. International Paper
128. Emerson Electric	129. Union Pacific	130. Amgen
131. U.S. Bancorp	132. Staples	133. Danaher
134. Whirlpool	135. Aflac	136. AutoNation
137. Progressive	138. Abbott Laboratories	139. Dollar General
140. Tenet Healthcare	141. Eli Lilly	142. Southwest Airlines
143. Penske Automotive Group	144. ManpowerGroup	145. Kohl's
146. Starbucks	147. Paccar	148. Cummins
149. Altria Group	150. Xerox	

Table 4: Fortune 500 - Companies Ranked: 151 - 200

151. Kimberly-Clark	152. Hartford F.S.G.	153. Kraft Heinz
154. Lear	155. Fluor	156. AECOM
157. Facebook	158. Jabil Circuit	159. CenturyLink
160. Supervalu	161. General Mills	162. Southern
163. NextEra Energy	164. Thermo Fisher Scientific	165. American Electric Power
166. PG&E Corp.	167. NGL Energy Partners	168. Bristol-Myers Squibb
169. Goodyear Tire & Rubber	170. Nucor	171. PNC F.S.G.
172. Health Net	173. Micron Technology	174. Colgate-Palmolive
175. Freeport-McMoRan	176. ConAgra Foods	177. Gap
178. Baker Hughes	179. Bank of N.Y. Mellon C.	180. Dollar Tree
181. Whole Foods Market	182. PPG Industries	183. Genuine Parts
184. Icahn Enterprises	185. Performance Food Group	186. Omnicom Group
187. DISH Network	188. FirstEnergy	189. Monsanto
190. AES	191. CarMax	192. National Oilwell Varco
193. NRG Energy	194. Western Digital	195. Marriott International
196. Office Depot	197. Nordstrom	198. Kinder Morgan
199. Aramark	200. DaVita HealthCare Partners	

Table 5: Fortune 500 - Companies Ranked: 201 - 250

201. Molina Healthcare	202. WellCare Health Plans	203. CBS
204. Visa	205. Lincoln National	206. Ecolab
207. Kellogg	208. C.H. Robinson Worldwide	209. Textron
210. Loews	211. Illinois Tool Works	212. Synnex
213. Viacom	214. HollyFrontier	215. Land O'Lakes
216. Devon Energy	217. PBF Energy	218. Yum Brands
219. Texas Instruments	220. CDW	221. Waste Management
222. Marsh & McLennan	223. Chesapeake Energy	224. Parker-Hannifin
225. Occidental Petroleum	226. Guardian Life I.C.A.	227. Farmers Ins. Exchange
228. J.C. Penney	229. Consolidated Edison	230. Cognizant Tech. Solutions
231. VF	232. Ameriprise Financial	233. Computer Sciences
234. L Brands	235. Jacobs Engineering Group	236. Principal Financial
237. Ross Stores	238. Bed Bath & Beyond	239. CSX
240. Toys R Us	241. Las Vegas Sands	242. Leucadia National
243. Dominion Resources	244. United States Steel	245. L-3 Communications
246. Edison International	247. Entergy	248. ADP
249. First Data	250. BlackRock	

Table 6: Fortune 500 - Companies Ranked: 251 - 300

251. WestRock	252. Voya Financial	253. Sherwin-Williams
254. Hilton Worldwide Holdings	255. R.R. Donnelley & Sons	256. Stanley Black & Decker
257. Xcel Energy	258. Murphy USA	259. CBRE Group
260. D.R. Horton	261. Estee Lauder	262. Praxair
263. Biogen	264. State Street Corp.	265. Unum Group
266. Reynolds American	267. Group 1 Automotive	268. Henry Schein
269. Hertz Global Holdings	270. Norfolk Southern	271. Reinsurance G. of America
272. Public Service E. G.	273. BB&T Corp.	274. DTE Energy
275. Assurant	276. Global Partners	277. Huntsman
278. Becton Dickinson	279. Semptra Energy	280. AutoZone
281. Navistar International	282. Precision Castparts	283. Discover F. S.
284. Liberty Interactive	285. W.W. Grainger	286. Baxter International
287. Stryker	288. Air Products & Chemicals	289. Western Refining
290. Universal Health Services	291. Owens & Minor	292. Charter Communications
293. Advance Auto Parts	294. MasterCard	295. Applied Materials
296. Eastman Chemical	297. Sonic Automotive	298. Ally Financial
299. CST Brands	300. eBay	

Table 7: Fortune 500 - Companies Ranked: 301 - 350

301. Lennar	302. GameStop	303. Reliance Steel & Aluminum
304. Hormel Foods	305. Celgene	306. Genworth Financial
307. PayPal Holdings	308. Priceline Group	309. MGM Resorts International
310. Autoliv	311. Fidelity National Financial	312. Republic Services
313. Corning	314. Peter Kiewit Sons'	315. Univar
316. Mosaic	317. Core-Mark Holding	318. Thrivent F. for Lutherans
319. Cameron International	320. HD Supply Holdings	321. Crown Holdings
322. EOG Resources	323. Veritiv	324. Anadarko Petroleum
325. Laboratory C. of A.	326. Pacific Life	327. News Corp.
328. Jarden	329. SunTrust Banks	330. Avis Budget Group
331. Broadcom	332. American Family I. G.	333. Level 3 Communications
334. Tenneco	335. United Natural Foods	336. Dean Foods
337. Campbell Soup	338. Mohawk Industries	339. BorgWarner
340. PVH	341. Ball	342. O'Reilly Automotive
343. Eversource Energy	344. Franklin Resources	345. Masco
346. Lithia Motors	347. KKR	348. Oneok
349. Newmont Mining	350. PPL	

Table 8: Fortune 500 - Companies Ranked: 351 - 400

351. SpartanNash	352. Quanta Services	353. XPO Logistics
354. Ralph Lauren	355. Interpublic Group	356. Steel Dynamics
357. WESCO International	358. Quest Diagnostics	359. Boston Scientific
360. AGCO	361. Foot Locker	362. Hershey
363. CenterPoint Energy	364. Williams	365. Dick's Sporting Goods
366. Live Nation Entertainment	367. Mutual of Omaha Ins.	368. W.R. Berkley
369. LKQ	370. Avon Products	371. Darden Restaurants
372. Kindred Healthcare	373. Weyerhaeuser	374. Casey's General Stores
375. Sealed Air	376. Fifth Third Bancorp	377. Dover
378. Huntington Ingalls Industries	379. Netflix	380. Dillard's
381. EMCOR Group	382. Jones Financial	383. AK Steel Holding
384. UGI	385. Expedia	386. salesforce.com
387. Targa Resources	388. Apache	389. Spirit AeroSystems H.
390. Expeditors Inter. of Washington	391. Anixter International	392. Fidelity N. Inf. S.
393. Asbury Automotive Group	394. Hess	395. Ryder System
396. Terex	397. Coca-Cola Eur. P.	398. Auto-Owners Insurance
399. Cablevision Systems	400. Symantec	

Table 9: Fortune 500 - Companies Ranked: 401 - 450

401. Charles Schwab	402. Calpine	403. CMS Energy
404. Alliance Data Systems	405. JetBlue Airways	406. Discovery Communic.
407. Trinity Industries	408. Sanmina	409. NCR
410. FMC Technologies	411. Erie Insurance Group	412. Rockwell Automation
413. Dr Pepper Snapple Group	414. iHeartMedia	415. Tractor Supply
416. J.B. Hunt Transport Services	417. Commercial Metals	418. Owens-Illinois
419. Harman Inter. Ind.	420. Baxalta	421. American F. G.
422. NetApp	423. Graybar Electric	424. Oshkosh
425. Ameren	426. A-Mark Precious Metals	427. Barnes & Noble
428. Dana Holding	429. Constellation Brands	430. LifePoint Health
431. Zimmer Biomet H.	432. Harley-Davidson	433. PulteGroup
434. Newell Brands	435. Avery Dennison	436. Jones Lang LaSalle
437. WEC Energy Group	438. Marathon Oil	439. TravelCenters of A.
440. United Rentals	441. HRG Group	442. Old Republic Inter.
443. Windstream Holdings	444. Starwood Hotels & Resorts	445. Delek US Holdings
446. Packaging Corp. of A.	447. Quintiles Transnational H.	448. Hanesbrands
449. Realogy Holdings	450. Mattel	

Table 10: Fortune 500 - Companies Ranked: 451 - 500

451. Motorola Solutions	452. J.M. Smucker	453. Regions Financial
454. Celanese	455. Clorox	456. Ingredion
457. Genesis Healthcare	458. Peabody Energy	459. Alaska Air Group
460. Seaboard	461. Frontier Communic.	462. Amphenol
463. Lansing Trade Group	464. SanDisk	465. St. Jude Medical
466. Wyndham Worldwide	467. Kelly Services	468. Western Union
469. Envision Healthcare H.	470. Visteon	471. Arthur J. Gallagher
472. Host Hotels & Resorts	473. Ashland	474. Insight Enterprises
475. Energy Future Holdings	476. Markel	477. Essendant
478. CH2M Hill	479. Western & Southern F.G.	480. Owens Corning
481. S&P Global	482. Raymond James Financial	483. NiSource
484. Airgas	485. ABM Industries	486. Citizens F.G.
487. Booz Allen Hamilton H.	488. Simon Property Group	489. Domtar
490. Rockwell Collins	491. Lam Research	492. Fiserv
493. Spectra Energy	494. Navient	495. Big Lots
496. Telephone & Data Systems	497. First American Financial	498. NVR
499. Cincinnati Financial	500. Burlington Stores	
