



# WORK SKILLS...

## THE 10 MOST IMPORTANT WORK SKILLS IN 2020



# WORK SKILLS...

## THE 6 DRIVERS OF CHANGE:



### EXTREME LONGEVITY

PEOPLE ARE LIVING LONGER

By 2025 the number of americans over 60 will increase by 70%.



### THE RISE OF SMART MACHINES AND SYSTEMS

TECH CAN AUGMENT AND EXTEND OUR OWN CAPABILITIES

Workplace automation is killing repetitive jobs.



### COMPUTATIONAL WORLD

INCREASES IN SENSORS AND PROCESSING MAKES THE WORLD A PROGRAMMABLE SYSTEM

Data will give us the ability to see things on a scale that has never been possible.



### NEW MEDIA ECOLOGY

NEW COMMUNICATION TOOLS REQUIRE MEDIA LITERACIES BEYOND TEXT

Visual communication media is becoming a new vernacular.



### SUPERSTRUCTURED ORGANIZATIONS

SOCIAL TECHNOLOGIES DRIVE NEW FORMS OF PRODUCTION AND VALUE CREATION

Social tools are allowing organizations to work at extreme scales.



### GLOBALLY CONNECTED WORLD

DIVERSITY AND ADAPTABILITY IS AT THE CENTER OF OPERATIONS

The United States and Europe no longer hold a monopoly on job creation, innovation, and political power.

# WORK SKILLS...



## SENSE MAKING

ABILITY TO DETERMINE THE DEEPER MEANING OR SIGNIFICANCE OF WHAT IS BEING EXPRESSED

THE DRIVERS:



## SOCIAL INTELLIGENCE

ABILITY TO CONNECT TO OTHERS IN A DEEP AND DIRECT WAY, TO SENSE AND STIMULATE REACTIONS AND DESIRED INTERACTIONS

THE DRIVERS:



## NOVEL AND ADAPTIVE THINKING

PROFICIENCY AT THINKING AND COMING UP WITH SOLUTIONS AND RESPONSES BEYOND THAT WHICH IS ROTE OR RULE-BASED

THE DRIVERS:



## CROSS CULTURAL COMPETENCY

ABILITY TO OPERATE IN DIFFERENT CULTURAL SETTINGS

THE DRIVERS:



## COMPUTATIONAL THINKING

ABILITY TO TRANSLATE VAST AMOUNTS OF DATA INTO ABSTRACT CONCEPTS AND TO UNDERSTAND DATA BASED REASONING

THE DRIVERS:



## NEW MEDIA LITERACY

ABILITY TO CRITICALLY ASSESS AND DEVELOP CONTENT THAT USES NEW MEDIA FORMS, AND TO LEVERAGE THESE MEDIA FOR PERSUASIVE COMMUNICATION

THE DRIVERS:



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## TRANSDISCIPLINARY

LITERACY IN AND ABILITY TO UNDERSTAND CONCEPTS ACROSS MULTIPLE DISCIPLINES

THE DRIVERS:



## DESIGN MINDSET

ABILITY TO REPRESENT AND DEVELOP TASKS AND WORK PROCESSES FOR DESIRED OUTCOMES

THE DRIVERS:



## COGNITIVE LOAD MANAGEMENT

ABILITY TO DISCRIMINATE AND FILTER INFORMATION FOR IMPORTANCE, AND TO UNDERSTAND HOW TO MAXIMIZE COGNITIVE FUNCTIONS

THE DRIVERS:



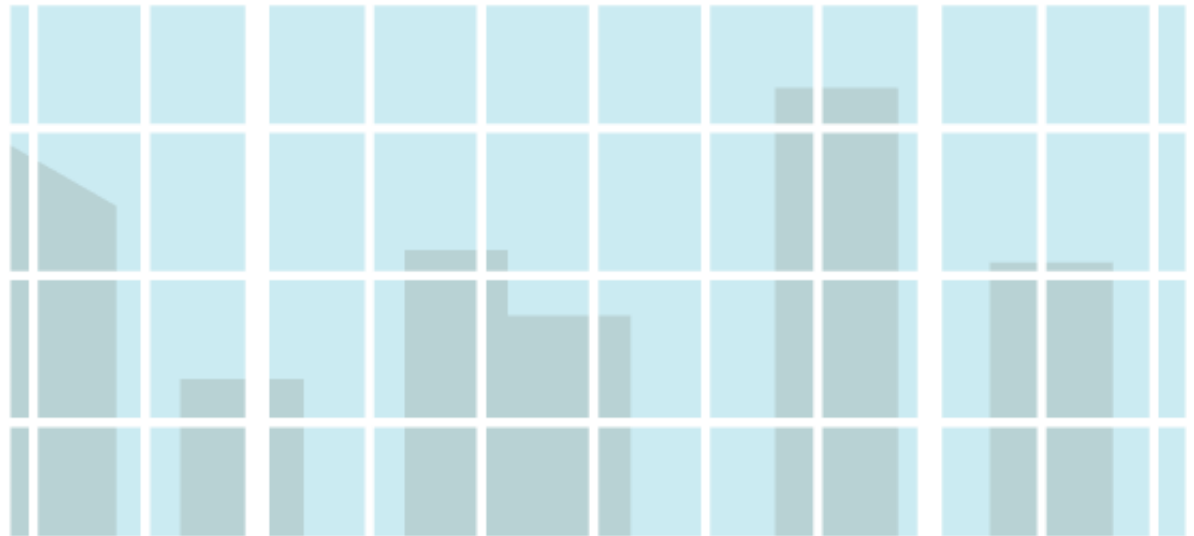
# WORK SKILLS...



## VIRTUAL COLLABORATION

ABILITY TO WORK PRODUCTIVELY,  
DRIVE ENGAGEMENT, AND  
DEMONSTRATE PRESENCE AS A  
MEMBER OF A VIRTUAL TEAM

THE DRIVERS:



PRESENTED BY:  
TOP 10 ONLINE COLLEGES.ORG

DEVELOPED BY  
**N**OWSOURCING

Source:

[cdn.theatlantic.com/static/front/docs/sponsored/phoenix/future\\_work\\_skills\\_2020.pdf](https://cdn.theatlantic.com/static/front/docs/sponsored/phoenix/future_work_skills_2020.pdf)

<http://www.top10onlinecolleges.org/work-skills-2020/>



# WORK SKILLS...

## LinkedIn® Profile & Résumé Services

We Know What Recruiters Want.

LinkedIn Skill	Number of Global LinkedIn Members With Skill	2018 Rank	2016 Rank	2015 Rank
Marketing Management	17,975,654	1		3
Mac, Linux & Unix Systems	5,948,674	2		15
Web Architecture & Development	4,175,317	3	3	9
Perl, Python, Ruby	2,684,247	4		13
Middleware & Integration Software	2,495,719	5	4	5
Business Intelligence	2,476,901	6		18
Java Development	2,196,447	7		19
Cloud & Distributed Computing	2,179,067	8	1	1
Network & Information Security	2,167,353	9	6	7
SEO, SEM & Search Engine Marketing	2,164,045	10	9	4
Mobile Development	1,492,721	11	7	6
Virtualization	1,131,493	12		17
Electronic & Electrical Engineering	1,049,256	13		20
Statistical Analysis & Data Mining	719,821	14	2	2
Channel Marketing	706,663	15		16
User Interface Design	577,865	16	5	10
Storage Systems & Management	565,038	17	10	8
Shell Scripting	510,926	18		14
Data Presentation	136,426	19	8	
Algorithm Design & Development	122,225	20		12

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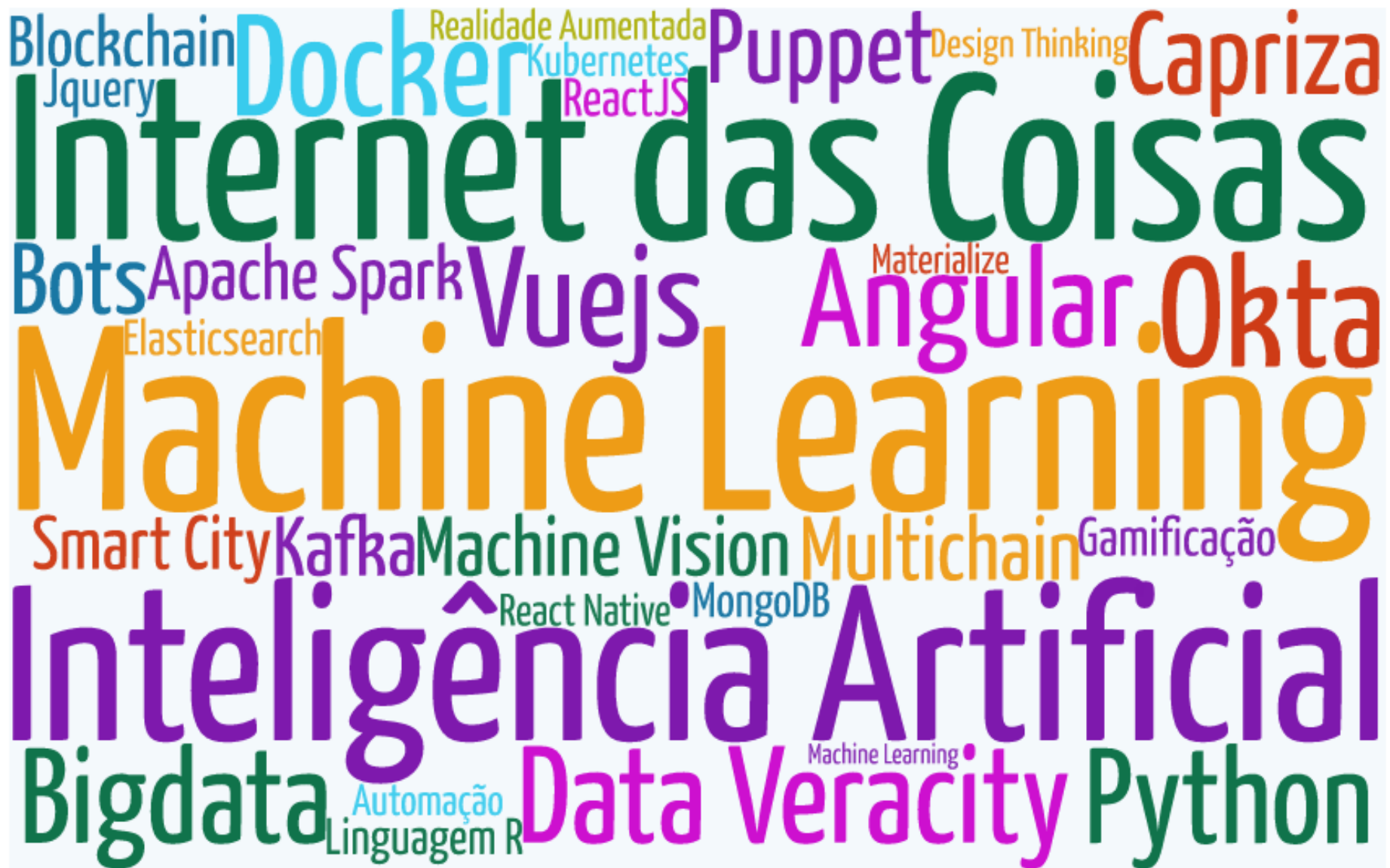
	Number of 2018 Global LinkedIn Members With Skill
<b>Other Technology Skills</b>	
Amazon Web Services	249,611
Artificial Intelligence	146,961
Augmented & Virtual Reality	58,659
Big Data & Big Data Analytics	437,152
Cloud Storage	322,637
Computer Security	648,668
Cyber Security	90,968
Data Warehouse	146,780
Database Management	819,130
HTML	5,701,191
Hybrid Cloud	19,839
IaaS	42,129
Information Technology	1,911,354
Internet Of Things	59,899
JavaScript	3,974,380
Machine Learning	378,109
PAAS	41,872
Penetration Testing	106,759
SAAS	1,794,245
Software	8,210,466
Software Development	4,688,120
Software Development Life Cycle	638,081
Software Engineering	1,666,837
Software Industry	269,152
Statistical Modeling	170,748
User Experience	850,264
Vmware, VMware Esx & vSphere	1,597,273
Web Application Security	69,753
Web Design	2,972,917

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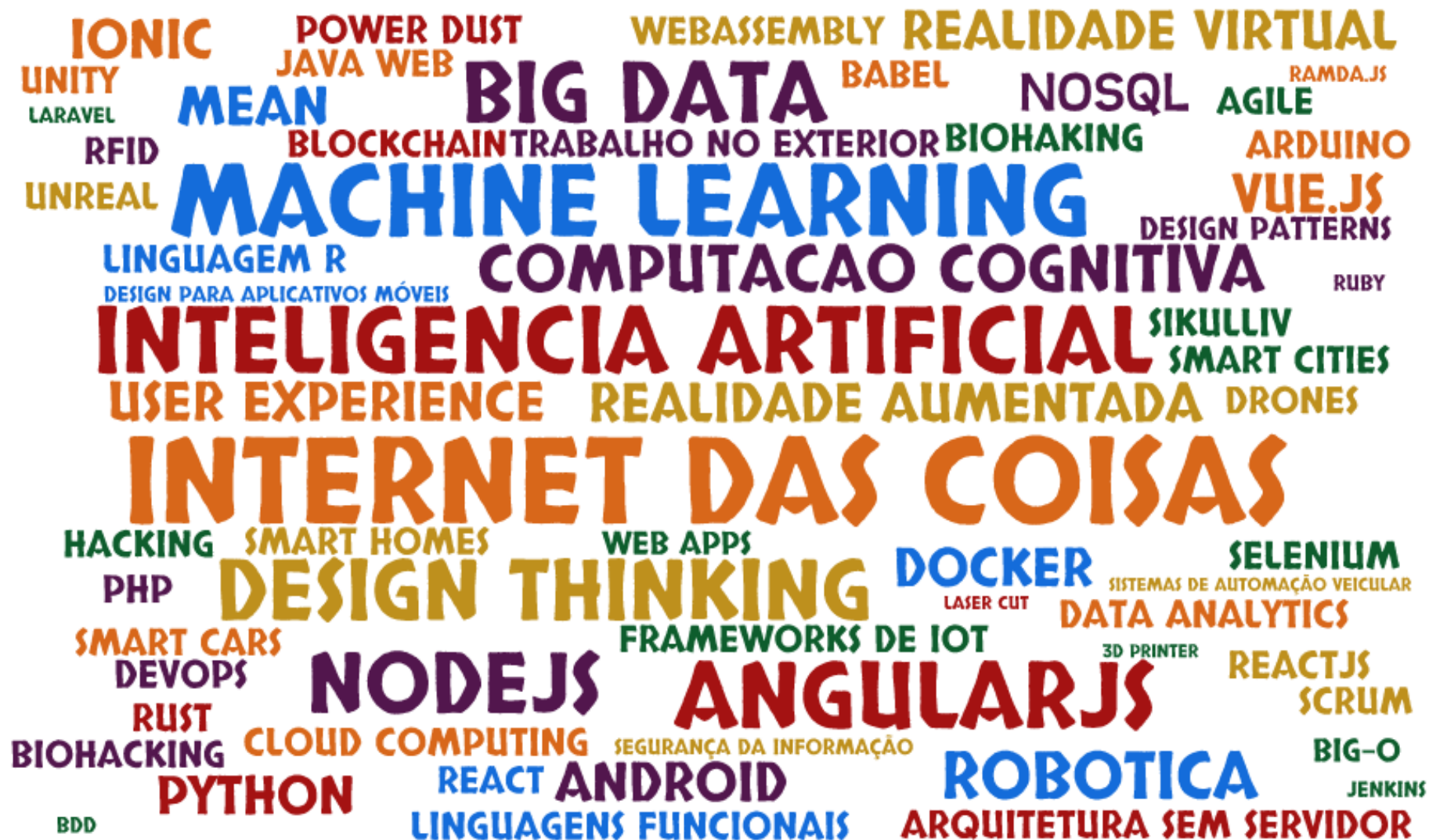
[www.LinkedinPro.com](http://www.LinkedinPro.com)



# TÓPICOS EMERGENTES: SUGESTÕES COLETADAS (2018)



# TÓPICOS EMERGENTES: SUGESTÕES COLETADAS (2017)



# OUTROS TÓPICOS EMERGENTES

## TÉCNICAS E PRÁTICAS

Integração Contínua

DevOps

SDN (Software Defined Network)

Responsividade

Acessibilidade

Arquiteturas de microcontainer

Web services

Virtualização

Pré-processadores

Aplicações web “offline first”

Challenge Based Learning

Design Thinking e Visual Thinking

TDD/BDD/DDD

Web e Social Analytics

Boas práticas para desenvolvimento

# OUTROS TÓPICOS EMERGENTES

## LINGUAGENS

Scala

Swift

Om

DART

Python

Ruby

Swift

Go

Programação Funcional

# OUTROS TÓPICOS EMERGENTES

## FERRAMENTAS

JSON Web Token

Elasticsearch

Composer

Netflix OSS full stack

GIT

MongoDB

Arduino

ReactJS

Apache (Hadoop, Solr, Shiro)

NodeJS

Angular

Speech API

Flux

Ember.js

Flight.js

Opencv

Xamarin

Beacons

Ionic

Cordova

Appium

AWS

# OUTROS TÓPICOS EMERGENTES

## CONCEITOS E TEORIAS

Computação Quântica  
Sistemas distribuídos  
Business Intelligence  
Programação Funcional  
Carros inteligentes  
Computação Social  
Gamification e Game Think  
Leitura Biométrica  
Banco de Dados temporais  
Sistemas embarcados  
Progressive Web Apps  
Análise preditiva  
Algoritmos de recomendação

Criptomoedas  
Blockchain  
Sistemas Embarcados  
Cloud Computing  
Engenharia do Conhecimento  
Forense computacional  
Computação Pervasiva  
Computação Ubíqua  
Startups  
Wearables  
Web Semântica  
FinTech  
Visão Computacional  
Reconhecimento de padrões  
Mercado de Trabalho em TI