



Center for Health Informatics
GRAINGER COLLEGE OF ENGINEERING



WHO Collaborating Center
on Information Systems
for Health

Analysis of Social Media Data about COVID-19 in the Americas

WHO Infodemic Consultancy
April 7-8 2020

Ian Brooks

Marcelo D'Agostino (PAHO/WHO)

Twitter Volume 03/2020

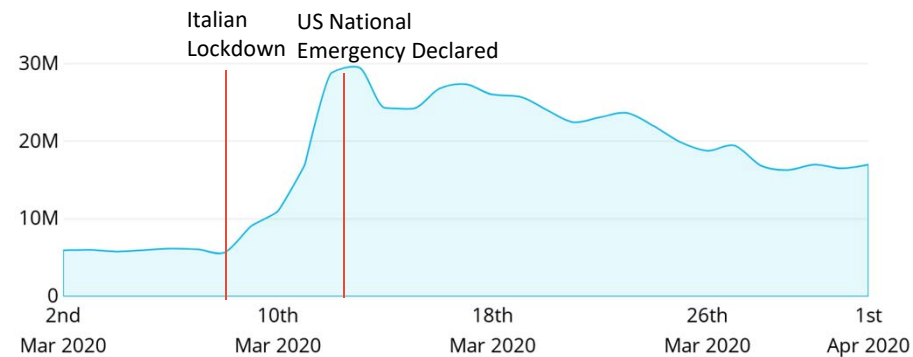
Worldwide posts containing one of the words:

"coronavirus" OR
"corona virus" OR
"covid19" OR
"covid-19" OR
"covid_19" OR
"pandemic"

Volume

The total volume of the conversation is 548,152,410

The volume of this conversation is variable



WHO Data Monitor - General

Date range: Mar 2nd, 2020 to Apr 1st, 2020



Crimson Hexagon



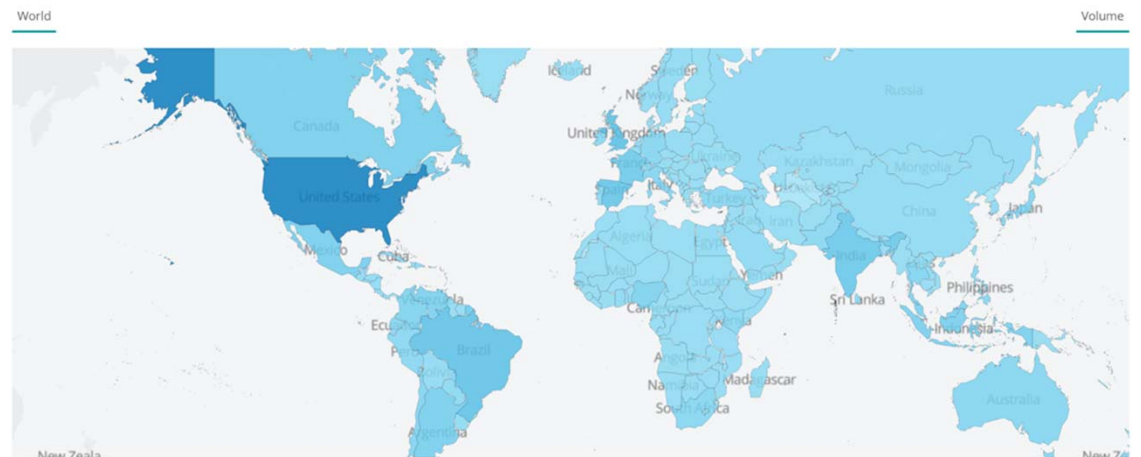
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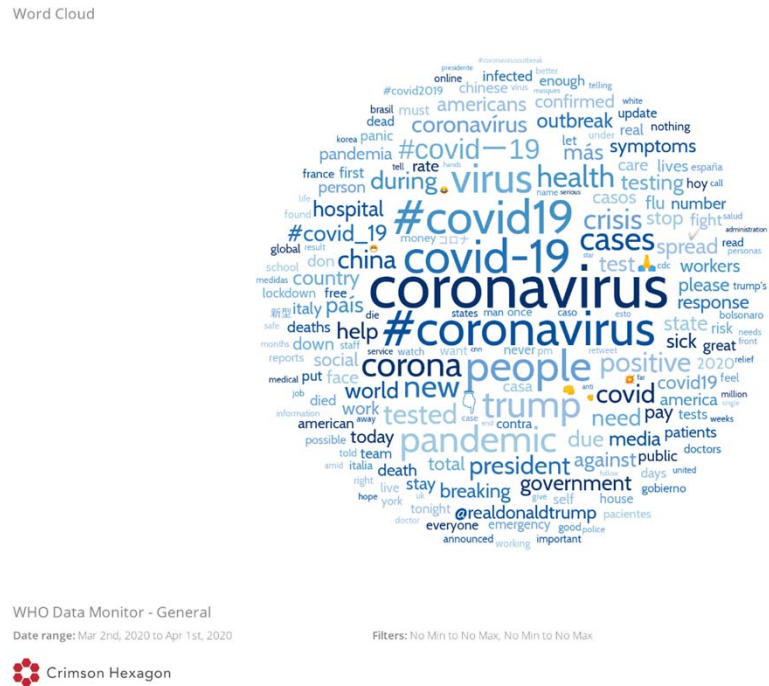
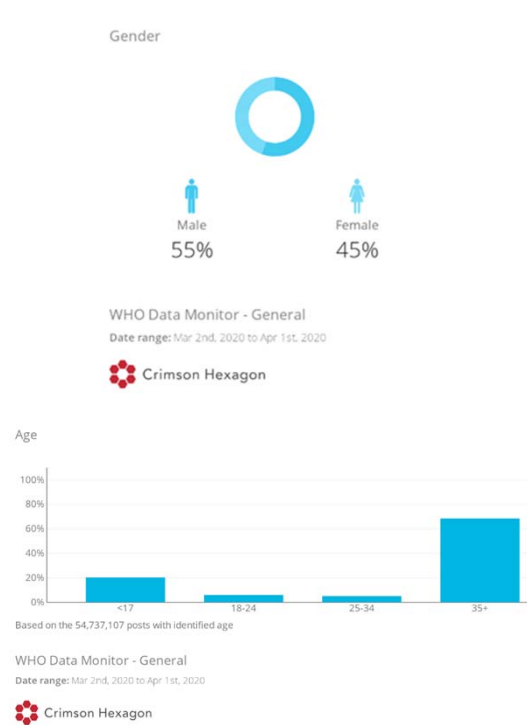
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Geographic Distribution of Tweets

Country	Number of Posts	Percentage
United States of America	106734383	35.43%
United Kingdom	19766840	6.56%
Brazil	18441058	6.12%
Spain	15459890	5.13%
India	13319663	4.42%
France	11311072	3.75%
Canada	8462414	2.81%
Mexico	7954697	2.64%
Argentina	7769504	2.58%
Indonesia	6865358	2.28%
Venezuela	5974632	1.98%
Malaysia	5871520	1.95%



Demographics and content of Tweets



Most common phrases from PAHO-region Tweets

English

Uni-grams	Bi-grams	Tri-grams
coronavirus	covid 19	test positive coronavirus
19	test positive	case covid 19
covid	coronavirus case	confirm coronavirus case
case	confirm case	positive covid 19
test	case coronavirus	test positive covid
people	positive coronavirus	confirm case coronavirus
get	coronavirus outbreak	covid 19 case
say	due coronavirus	coronavirus covid 19
go	year old	covid 19 pandemic
health	stay home	spread covid 19
us	coronavirus pandemic	due covid 19
trump	wash hand	fight covid 19
confirm	get coronavirus	covid 19 test
spread	public health	confirm case covid
new	case covid	covid 19 outbreak
virus	confirm coronavirus	world health organization
take	spread coronavirus	health care worker
one	positive covid	barbados pm mia
day	social distance	contract covid 19
need	new york	covid 19 virus

Spanish

Uni-grams	Bi-grams	Tri-grams
coronavirus	covid 19	coronavirus covid 19
19	caso coronavirus	caso covid 19
covid	casar coronavirus	confirmar casar coronavirus
caso	caso confirmar	nuevo caso coronavirus
casar	dar positivo	dar positivo coronavirus
hacer	coronavirus poder	positivo covid 19
ir	nuevo caso	contagiar covid 19
si	coronavirus covid	coronavirus poder matar
poder	ministerio salud	caso confirmar coronavirus
país	contagiar coronavirus	pandemia covid 19
salud	positivo coronavirus	casar aislamiento total
día	coronavirus ir	aislamiento total caso
confirmar	puerto rico	cerrar escuela país
personar	confirmar casar	escuela país coronavirus
medir	coronavirus llegar	total caso confirmar
decir	último hora	ministerio salud público
llegar	tomar medir	casar covid 19
nuevo	coronavirus argentino	coronavirus poder matarme
ser	abrir hilar	organización mundial salud
gobernar	nuevo coronavirus	casar coronavirus argentino

Portuguese

Uni-grams	Bi-grams	Tri-grams
coronavírus	covid 19	sequenciaram genoma coronavírus
coronavirus	novo coronavírus	pessoa divulgar notícia
ir	ministério saudar	divulgar notícia pesquisar
19	caso confirmar	notícia pesquisar brasileiro
covid	coronavírus brasil	pesquisar brasileiro foder
brasil	combater coronavírus	brasileiro foder coronavírus
fazer	causar coronavírus	foder coronavírus dizer
casar	ficar casar	coronavírus dizer pq
caso	pandemia coronavírus	dizer pq medicinar
pra	poder ser	pq medicinar área
bolsonaro	coronavírus ir	medicinar área tão
poder	jair bolsonaro	área tão lindo
pessoa	caso coronavírus	tão lindo anjo
ser	casar coronavírus	lindo anjo maior
saudar	coronavírus dizer	anjo maior responsável
novo	genoma coronavírus	maior responsável biotecnologistas
dizer	pegar coronavírus	responsável biotecnologistas farmacêutico
dia	primeiro casar	biotecnologistas farmacêutico biomédico
confirmar	lavar mão	farmacêutico biomédico biólogo
país	caso suspeito	biomédico biólogo químico



Most common hashtags from PAHO-region Tweets

All Tweets

- #Coronavirus
- #Covid19
- #Covid-19
- #Covid_19
- #FlattenTheCurve
- #Pandemic

Most identifiable as Ministry of Health Tweets

- #PlanCoronavirus
- #PrevencionEsSalud
- #ActivadosPorLaSalud
- #CuidémonosEntreTodos
- #QuédateEnCasa
- #UnidosContraElVirus

