

EJERCICIO DE MODELAJE DE COVID-19

Una guía "paso a paso"para calculary el Rt con EpiEstim







Cáculo del Rt con **EpiEstim**

→ Ir a https://harvardanalytics.shinyapps.io/covid19/







Paso 1:

- Prepare los datos de incidencia diaria de casos para la región/área/país que quiere estudiar en dos columnas : "dates" and "I";
- 2. Guarde el archivo bajo la extension formato .csv

Prepare la incidencia diaria de casos de su región/área/país en un archivo con extension <u>.csv</u>



dates 28/02/2020

29/02/2020

01/03/2020

5 02/03/2020

6 03/03/2020

8 05/03/2020

9 06/03/2020

10 07/03/2020

11 08/03/2020
 12 09/03/2020

13 10/03/2020

14 11/03/2020

15 12/03/2020

16 13/03/2020

17 14/03/2020

18 15/03/2020

19 16/03/2020

20 17/03/2020

21 18/03/2020

22 19/03/2020

23 20/03/2020

24 21/03/2020

25 22/03/2020

26 23/03/2020 27 24/03/2020

28 25/03/2020

29 26/03/2020

30 27/03/2020

31 28/03/2020

32 29/03/2020

33 30/03/2020

34 31/03/2020

35 01/04/2020

04/03/2020

2

0

0

3

0

0

0

0

0

2

0

0

0

4

1

14

15

12

29

11

25 46

0

0

87

119

108

111

128

131

145

101

0

0

BE AWARE. PREPARE. ACT.



Choose CSV File	Welcome Graphs Statistics	Paso 2:
Browse No file selected	1°. Buscar y cargar el achivo .csv th helps countries estimate the rate of translative r	nsmission of COVID-19 u
 Header Separator Comma Semicolon Tab 	1. Epidemic curves (number of incidents) as a function of the 2. Estimated R (Rate of transmission) as a function of time $\mu_{si} = 4.8$ and standard deviation $\sigma_{si} = 2.3$ COVID-19 Estimator is available for all countries to use. It is paraddressing the COVID-19 epidemic.	me t t with 95% confidence in art of the World Health Orç
Quote None Double Quote Single Quote Toggle Settings for viewing results	2° . Cuando el archivo se haya cargado, la sigu Choose CSV File Browse country_timeseries.csv	uiente barra aparecerá:
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COVID-19 Estimator

Statistics

PALEO Pan American Health Organization

Graphs

COVID-19 Estimator

Graphs Statistics

This is an interface that helps countries estimate the rate of

This interface dynamically produces the following results:

1. Epidemic curves (number of incidents) as a function c 2. Estimated R (Rate of transmission) as a function of ti

 $\mu_{si}=4.8$ and standard deviation $\sigma_{si}=2.3$

COVID-19 Estimator is available for all countries to use. It is addressing the COVID-19 epidemic.

Getting Started

Welcome

We come

To begin, simply click Browse... and upload a CSV file (co

Note that the CSV must contain dates in the first column and format can been downloaded below.

La Download Sample COVID-19 CSV File ▲

Uploaded File

dates	1
28/02/2020	2
29/02/2020	0

En la pestaña de "bienvenida" aparecerán los supuestos y el archivo cargado.

World Health

Organization

Verifique la pestaña de "bienvenida"

Paso 3:

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COVID-19 Estimator

Graphs

Welcome

Statistics

En la pestaña "graphs" aparecerán los gráficos de la epicurva y de la fluctuación de la Rt.



Paso 4:

Verifique la pestaña "graphs"



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Paso 5:

COVID-19 Estimator

Graphs

Welcome

Verifique la pestaña "statistics"

• En la pestaña "statistics" aparecerá la Rt calculada.

Statistics

• Este es el número que necesitará usar para las proyecciones con CovidSIM.

Welcome Graphs Statistics

Summary Statistics



 \clubsuit Download Summary Statistics of Transmission Rates



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← → C ☆ 🏻 harvardanalytics.shinyapps.io/covid19/

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World Health Organization

Choose CSV File			
Browse	Mexico_timeseries.csv		
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Welcome Graphs Statistics

COVID-19 Estimator

This is an interface that helps countries estimate the rate of transmission of COVID-19 using the number of reported cases on specific dates.

This interface dynamically produces the following results:

1. Epidemic curves (number of incidents) as a function of time t

2. Estimated R (Rate of transmission) as a function of time t with 95% confidence intervals. This is calculated using sliding weekly windows, with a parametric serial interval based on a mean of $\mu_{st} = 4.8$ and standard deviation $\sigma_{st} = 2.3$

COVID-19 Estimator is available for all countries to use. It is part of the World Health Organization's efforts to help countries successfully monitor transmission rates and prescribe public policies addressing the COVID-19 epidemic.

Getting Started

To begin, simply click Browse... and upload a CSV file (comma-seperated values) in the sidebar panel on the left.

Note that the CSV must contain dates in the first column and number of incidents in the second column. Note that dates must be written in the order of Day/Honth/Year. A sample CSV in a correct format can been downloaded below.

Lownload Sample COVID-19 CSV File

Uploaded File

 dates
 I

 28/02/2020
 2

 29/02/2020
 0

 01/03/2020
 0

 02/03/2020
 3

 03/03/2020
 0

Gracias



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