



# Visualización de la Información

## Análisis Multivariante

Diplomatura en Ciencia de Datos

# Índice

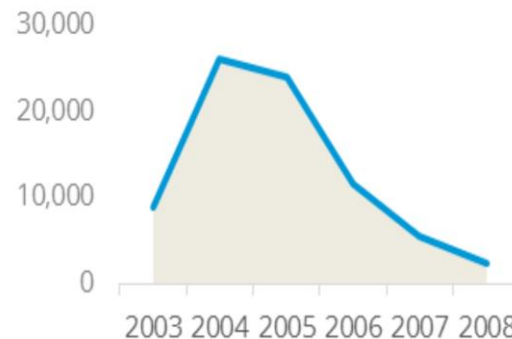
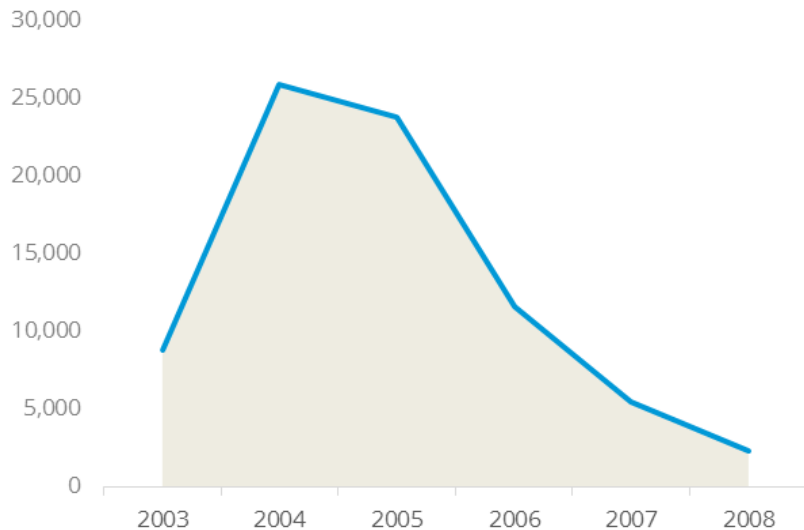
- Small Multiples
- Radar Charts
- Coordenadas paralelas



# Small Multiples




# Small Multiples






Nuestra visión tiene una gran capacidad para identificar y comparar formas, incluso de pequeño tamaño.



# Small Multiples

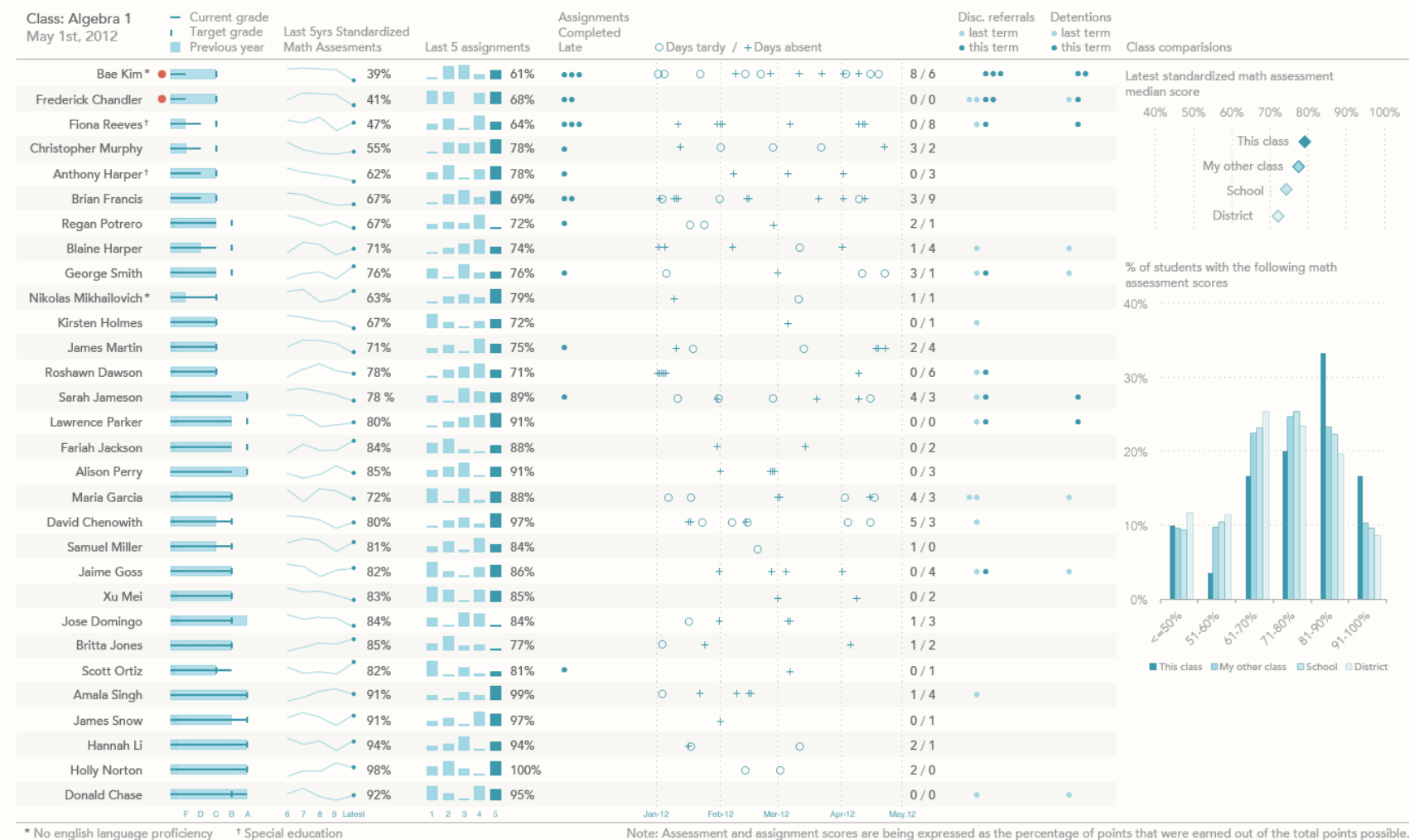
## Sparklines

Using d3.js, we can fairly easily draw SVG-based sparklines. This is 2013 historical stock prices for **Google**  **\$1084.75**. And this is for **Facebook**  **\$55.57**. And this is for **Apple**  **\$550.77**. Each sparkline has 244 data points, but it's condensed very nicely.

	ene-19	feb-19	mar-19	abr-19	may-19	jun-19	jul-19	ago-19	sep-19	oct-19	nov-19	dic-19	
Oficina 1	20	48	13	21	21	73	73	69	43	88	55	95	
Oficina 2	55	34	34	50	53	26	72	54	41	22	50	36	
Oficina 3	34	36	51	55	66	23	19	36	24	23	63	26	
Oficina 4	53	50	58	50	61	60	71	27	58	36	41	40	
Oficina 5	43	45	45	65	32	8	64	44	75	68	38	39	

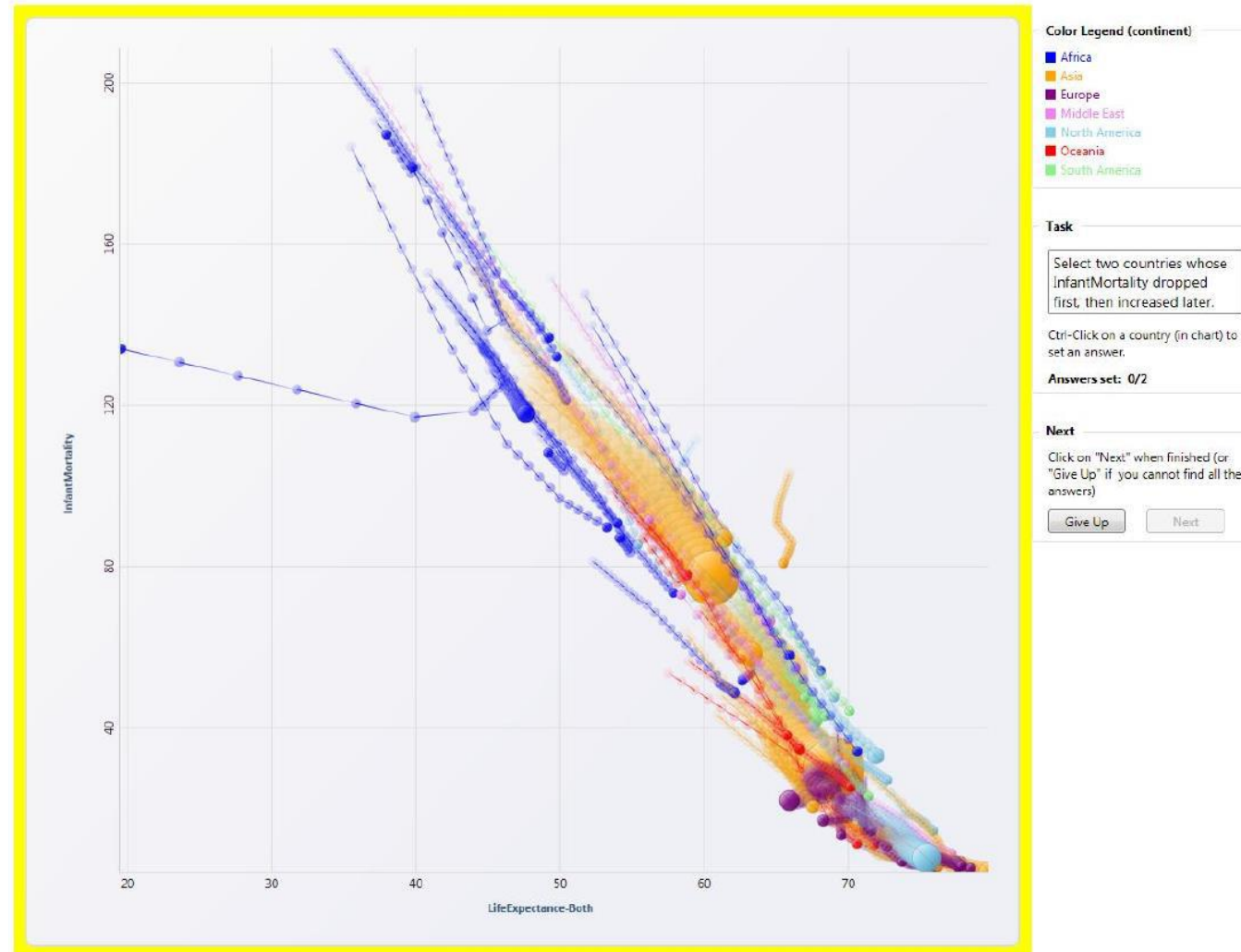
# Small Multiples

## Sparklines





# Small Multiples



# Small Multiples



## Color Legend (continent)

- Africa
- Asia
- Europe
- Middle East
- North America
- Oceania
- South America

## Task

Select two countries whose InfantMortality dropped first, then increased later.

Ctrl-Click on a country (in chart) to set an answer.

Answers set: 0/2

## Next

Click on "Next" when finished (or "Give Up" if you cannot find all the answers)

Give Up

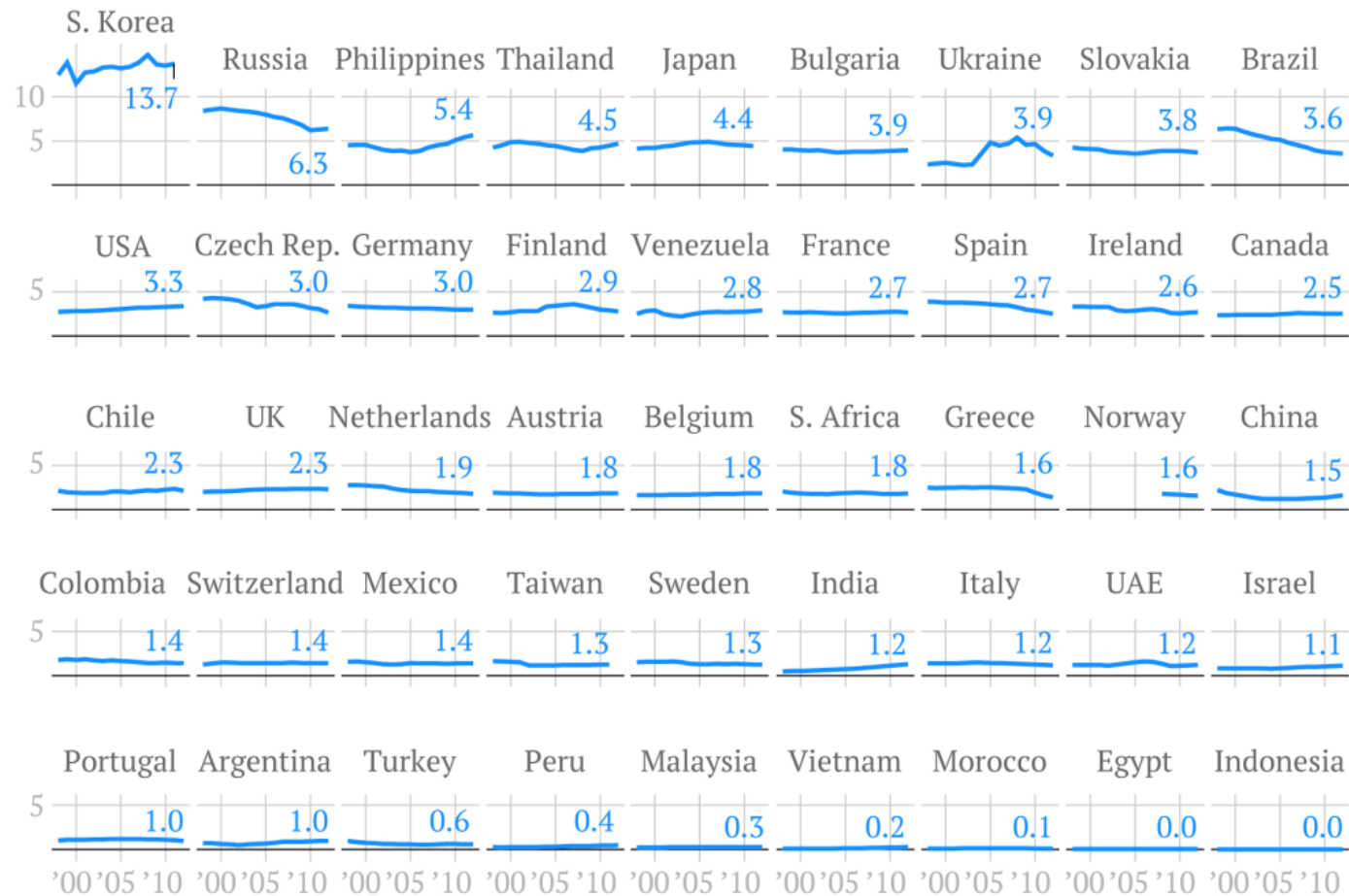
Next



# Small Multiples

## The average amount of liquor consumed by a person of drinking age

*Shots per week of any spirit*



# Small Multiples

## Police Forces Skew White in Largest U.S. Cities

The racial composition of police departments often fails to correlate with the populations they serve. In five of the largest U.S. cities, white officers vastly over-represent the share of white residents.

PUBLISHED AUG. 20, 2014

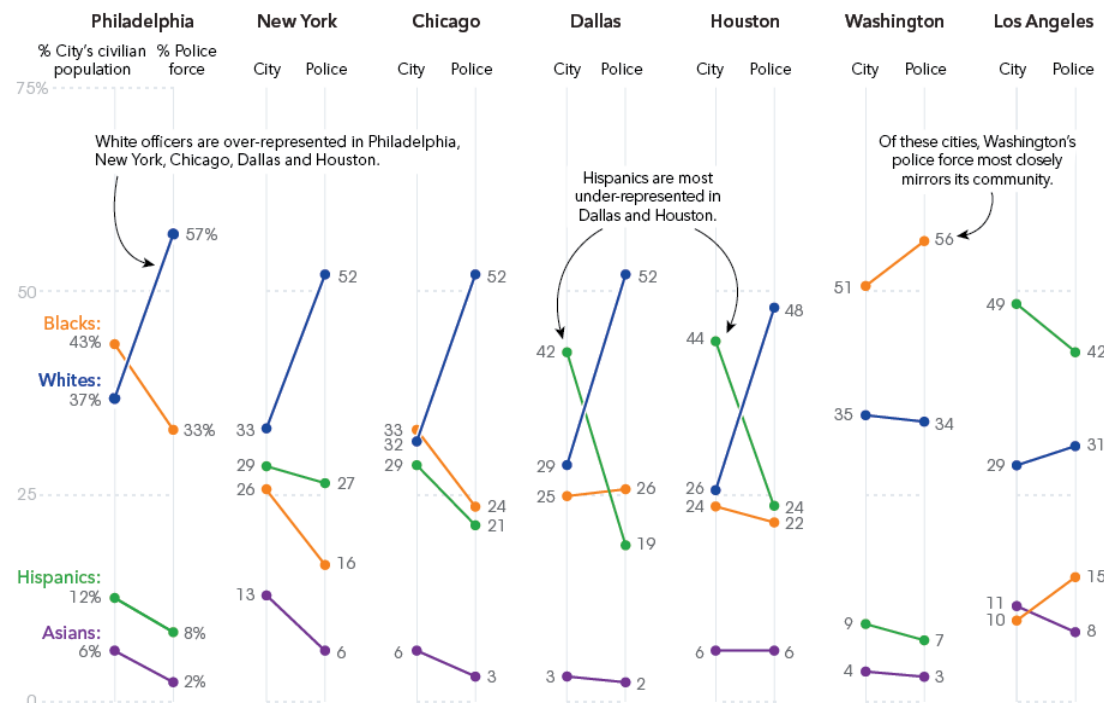
Twitter Facebook Email Google+ LinkedIn

### Racial Composition of Nation's Largest City Police Departments & the Cities They Serve

Percentage of people belonging to a particular race

White Black Hispanic Asian

Show 2008 police data



# Small Multiples

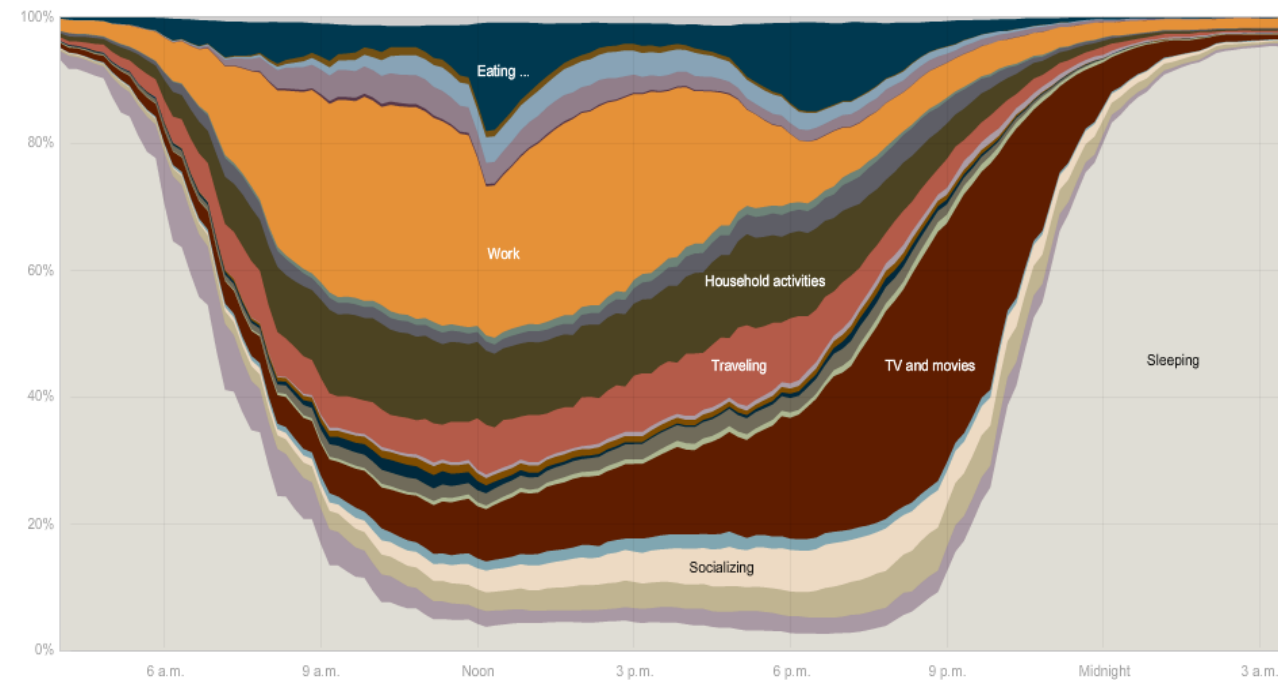
## How Different Groups Spend Their Day

The American Time Use Survey asks thousands of American residents to recall every minute of a day. Here is how people over age 15 spent their time in 2008. [Related article](#)

### Everyone

Sleeping, eating, working and watching television take up about two-thirds of the average day.

Everyone	Employed	White	Age 15-24	H.S. grads	No children
Men	Unemployed	Black	Age 25-64	Bachelor's	One child
Women	Not in lab...	Hispanic	Age 65+	Advanced	Two+ children



By SHAN CARTER, AMANDA COX, KEVIN QUEALY and AMY SCHOENFELD | [Send Feedback](#)

# Small Multiples

## How Americans Spend Their Day

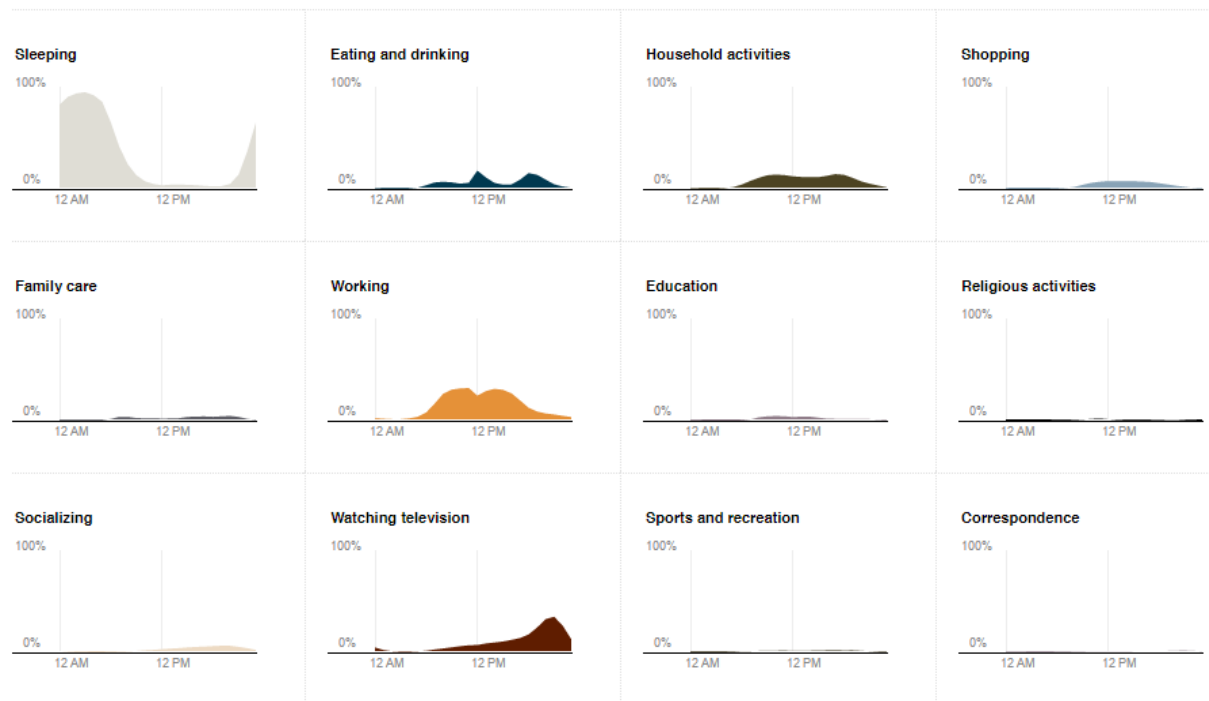
[Tweet](#)

The [American Time Use Survey](#) measures how people spend their day. Participants, aged 15 or older, keep track of everything they do for a day and are then interviewed over telephone. Based on responses from thousands between 2005 and 2009, this shows estimates for the percentage of people spending time sleeping, eating, etc during the hours of the day. [Read more...](#)

### Everyone

The essentials — sleeping, eating, and working — take up the better part of the day, often ended with watching television.

Everyone	Age 15 to 19	With children
Men	18 and over	Children under 3
Women	75 and over	No children

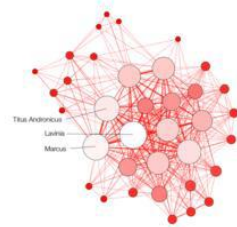


By Nathan Yau, [FlowingData](#); inspired by [The New York Times](#)

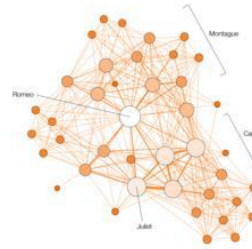
(Not tested in IE)

# Small Multiples

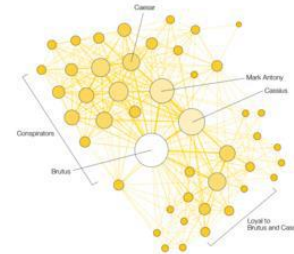
## SHAKESPEAREAN TRAGEDY



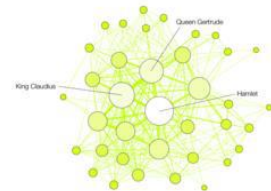
TITUS ANDRONICUS  
Number of characters 36 | 50% Network density



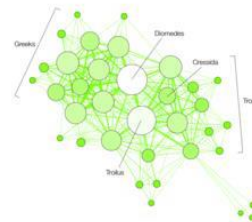
ROMEO AND JULIET  
Number of characters 41 | 37% Network density



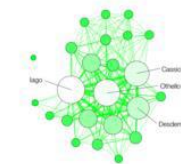
JULIUS CAESAR  
Number of characters 46 | 34% Network density



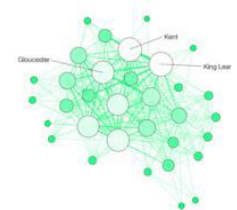
HAMLET  
Number of characters 37 | 39% Network density



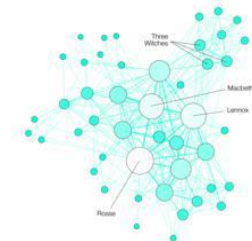
TROILOUS AND CRESSIDA  
Number of characters 35 | 40% Network density



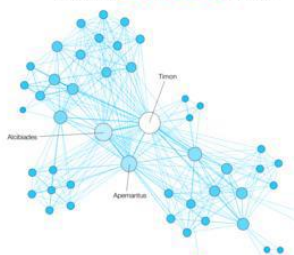
OTHELLO  
Number of characters 24 | 55% Network density



KING LEAR  
Number of characters 33 | 45% Network density



MACBETH  
Number of characters 46 | 25% Network density



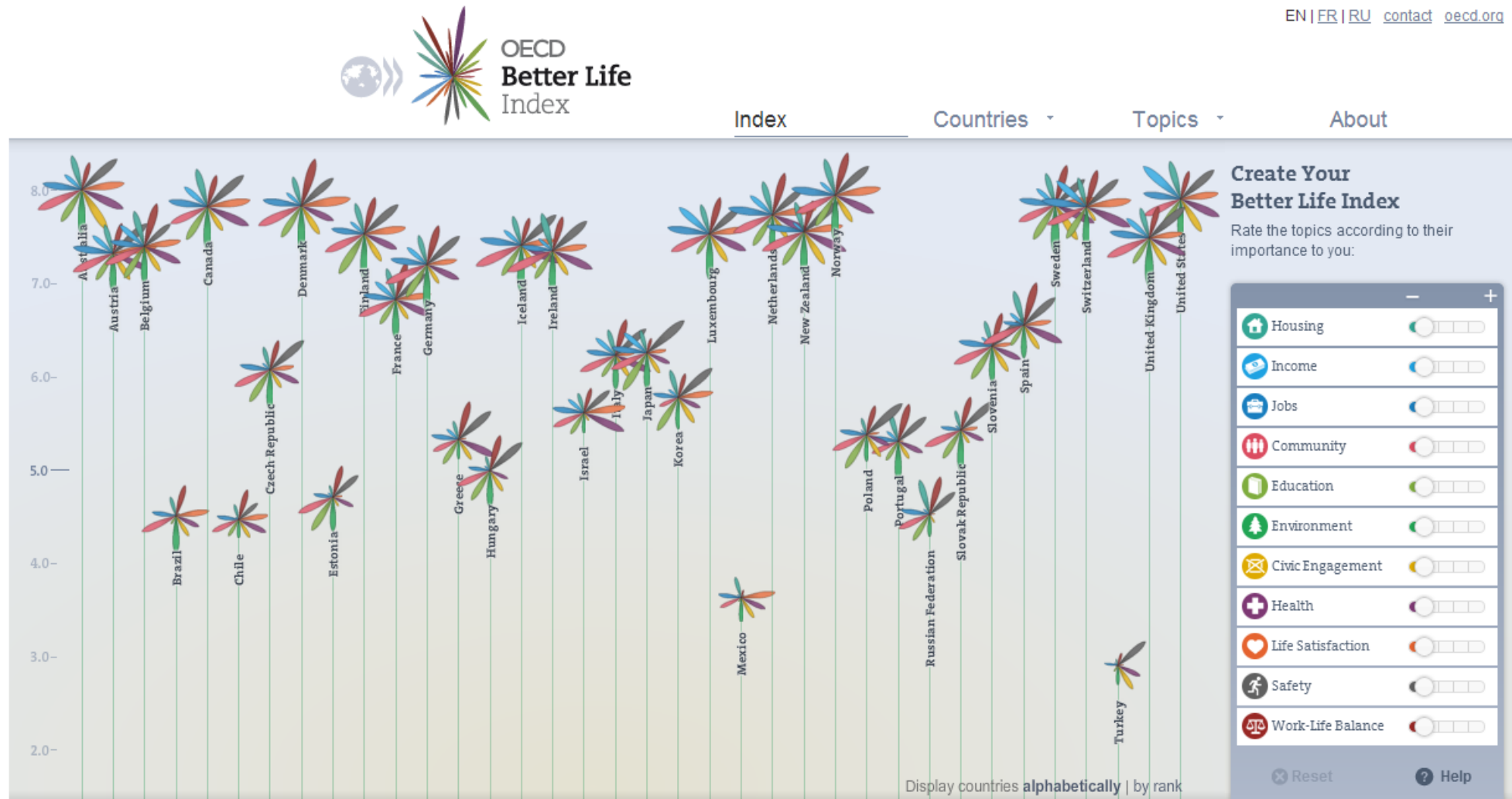
TIMON OF ATHENS  
Number of characters 51 | 25% Network density

# Small Multiples





# Small Multiples





# Radar Charts

# Radar Charts

