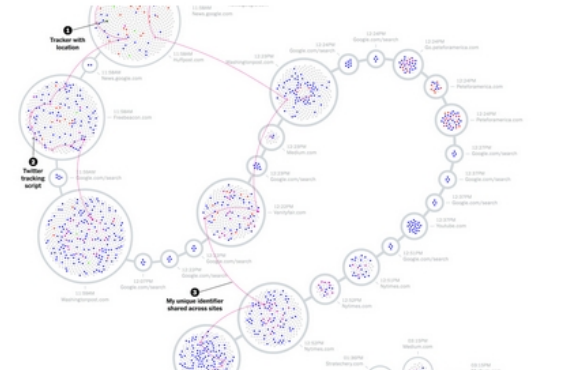
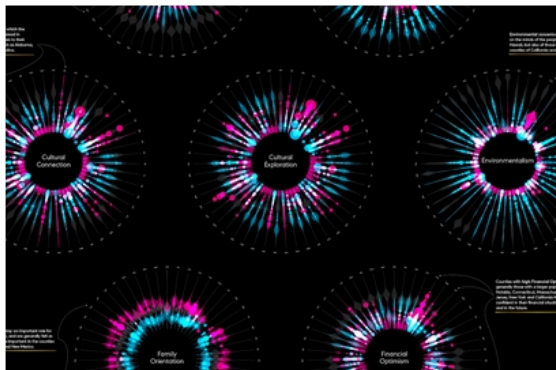
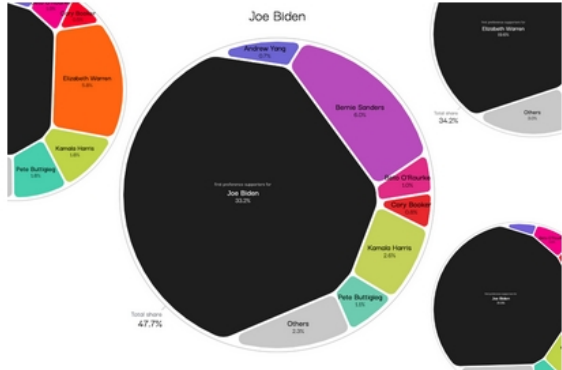
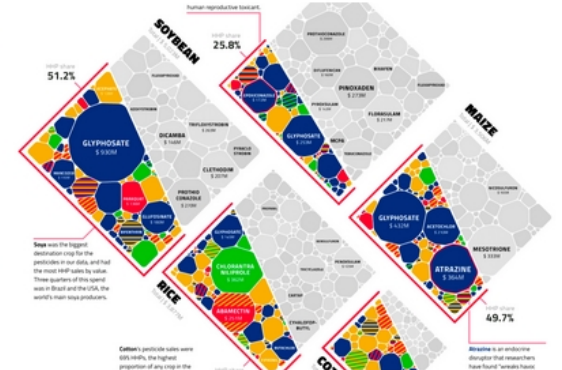
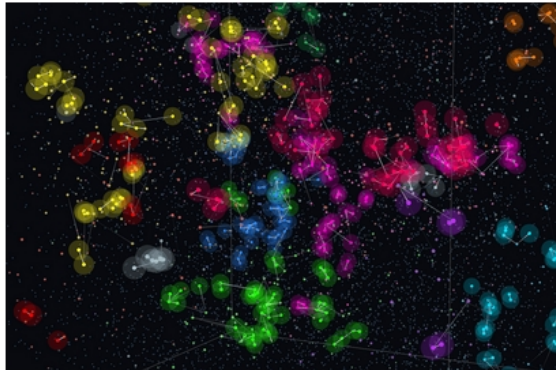
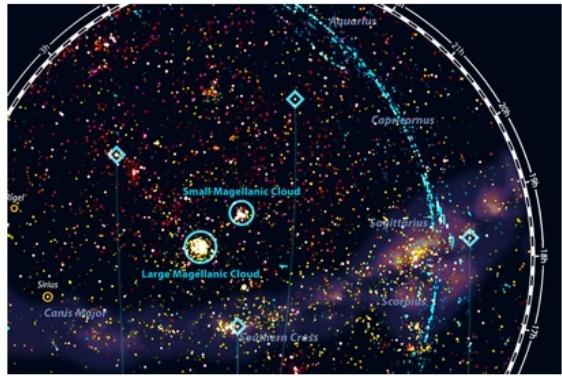
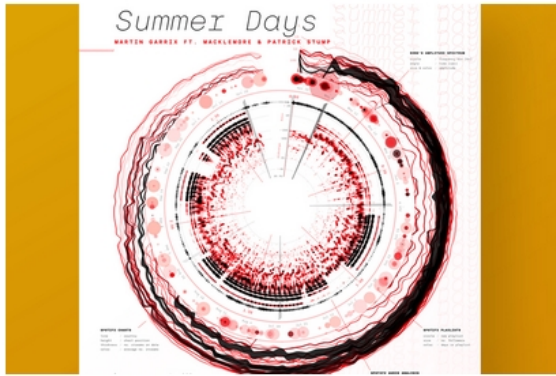


Visualización Avanzada de Datos

(Temas Selectos de Estadística)

Primavera 2024

Datos ▶ Imagen

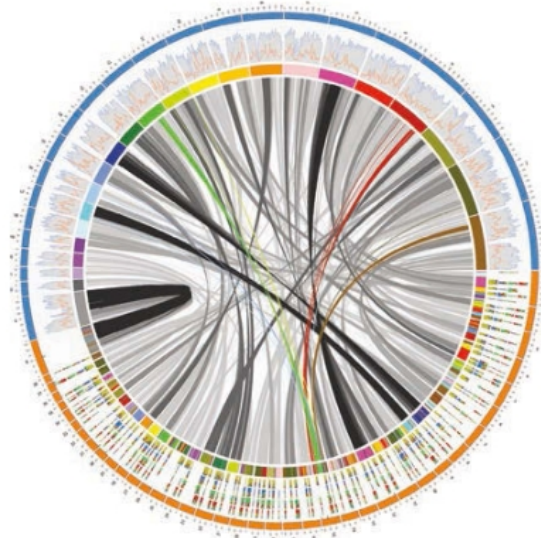
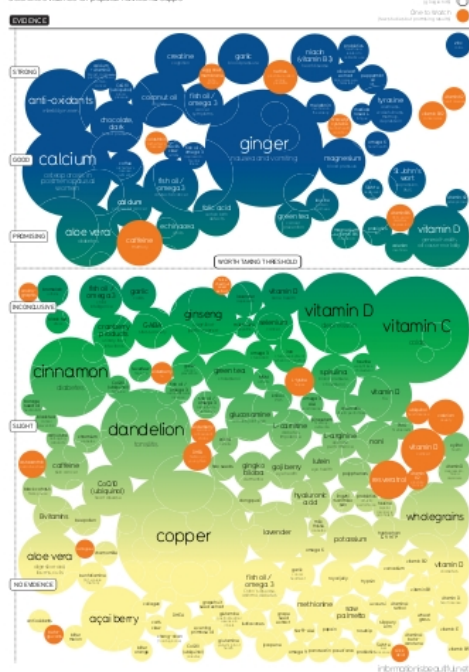




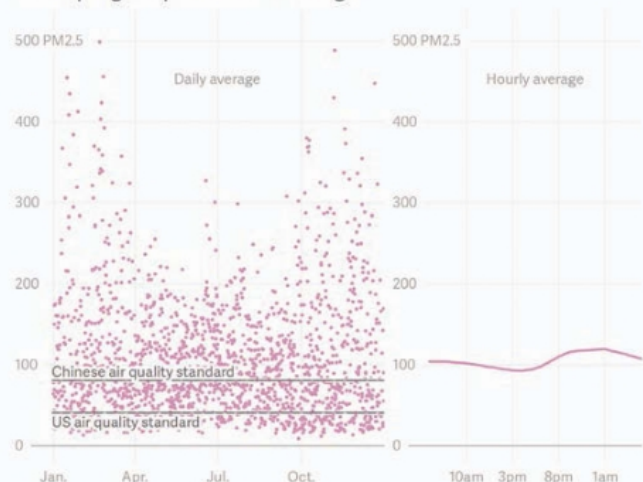
Once the province of a few experts and specialists, visualization now belongs to everyone, including designers, artists, journalists, and scientists.

Snake Oil Supplements?

Scientific evidence for popular nutritional supplements





Beijing, like all of the Chinese cities analyzed here, has air pollution that maxes out in the winter. But unlike the other cities, its pollution bottoms out in spring and peaks around midnight.



1. Lenguajes visuales

➔ Magnitude Channels: Ordered Attributes

Position on common scale 

Position on unaligned scale 

Length (1D size) 

Tilt/angle 

Area (2D size) 

Depth (3D position) 

Color luminance 

Color saturation 

Curvature 

Volume (3D size) 

Same

Best
Effectiveness
Least

➔ Identity Channels: Categorical Attributes

Spatial region 

Color hue 

Motion 

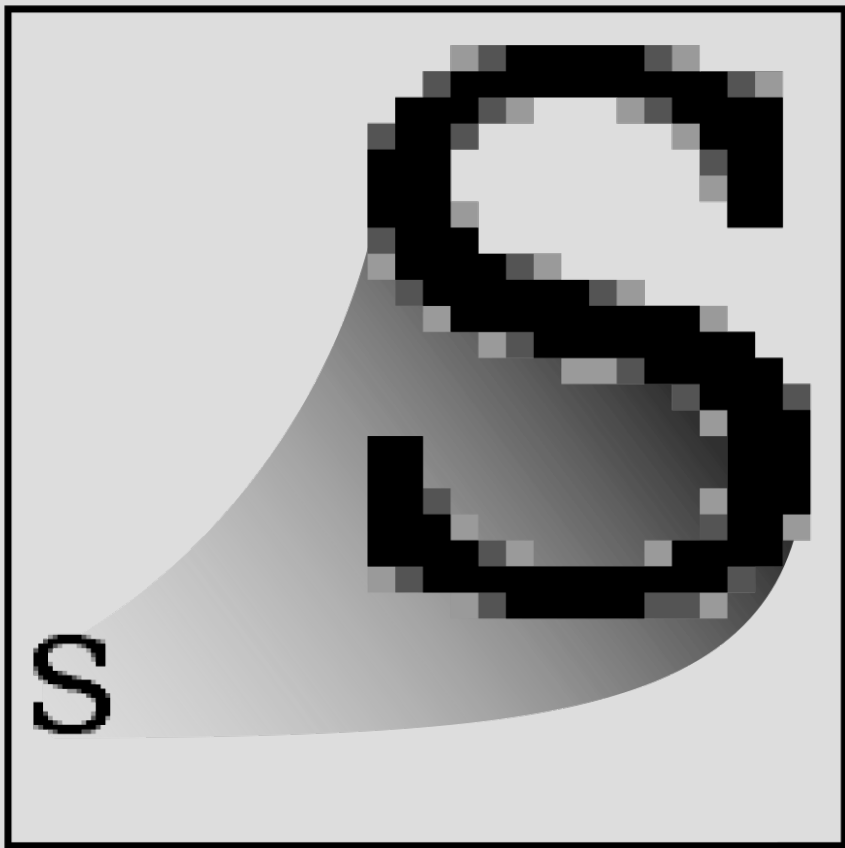
Shape 

Channels effectiveness rankings

Overview of all 80 elements

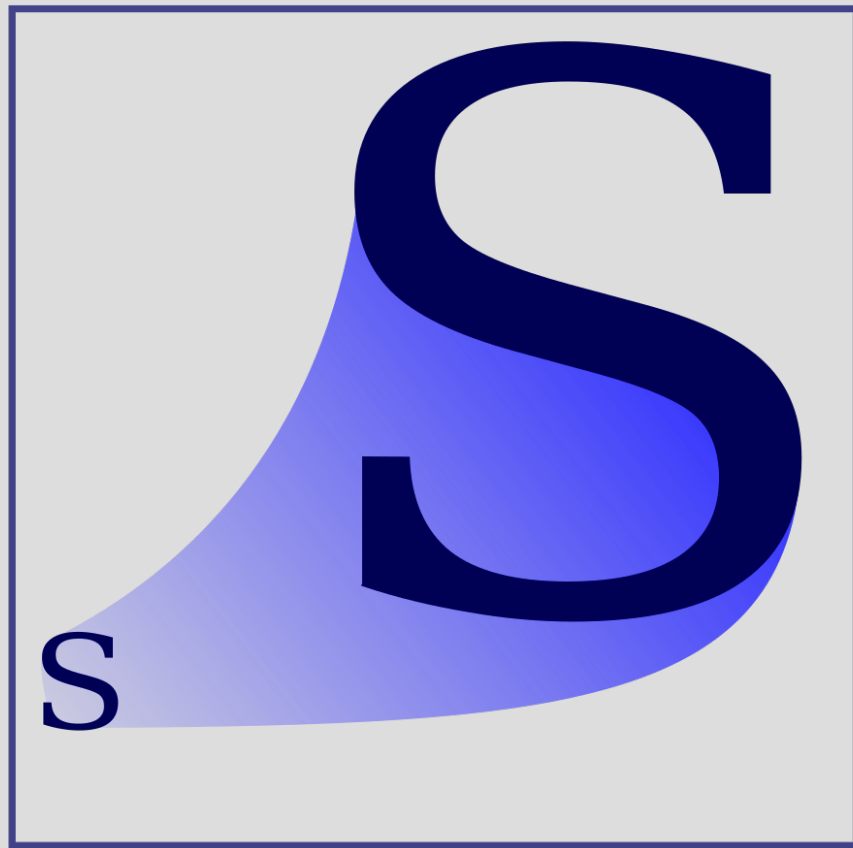
Diagrammatical dimensions		2A Quantity				3C Line					
									3D Pattern		
										3E Contour	
2B Position											
2C Relationship						3F Isotype					
			Visual dimensions						Structuring dimensions		
3A Color						4A Sorting					
	3B Shape								4B Grouping		

2. Gráficos vectoriales por computadora



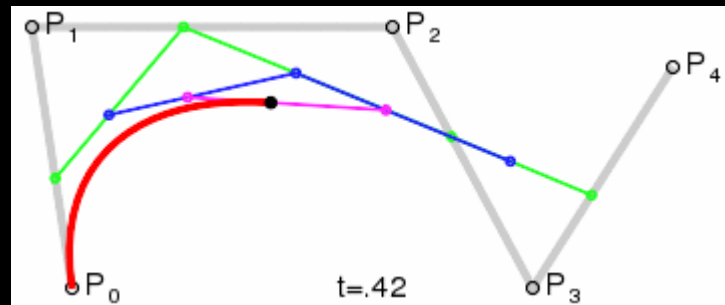
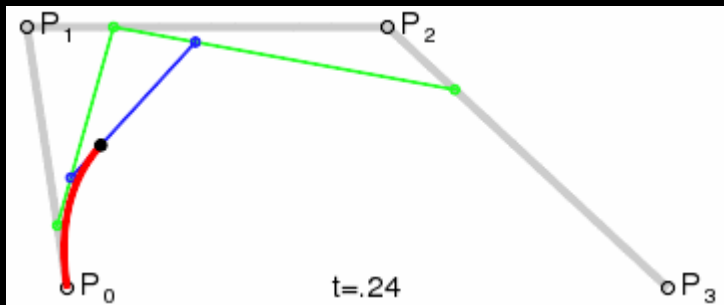
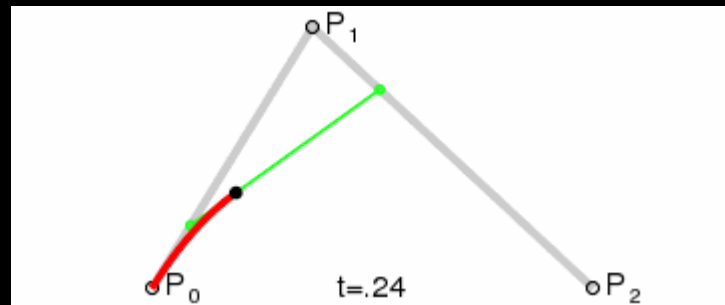
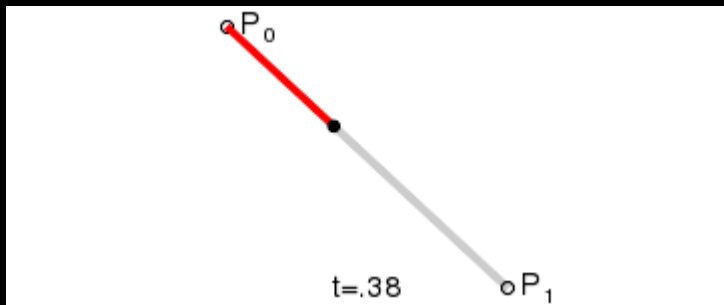
Raster

GIF, JPEG, PNG



Vector

SVG



3. Software + ejemplos

The JavaScript library for bespoke data visualization

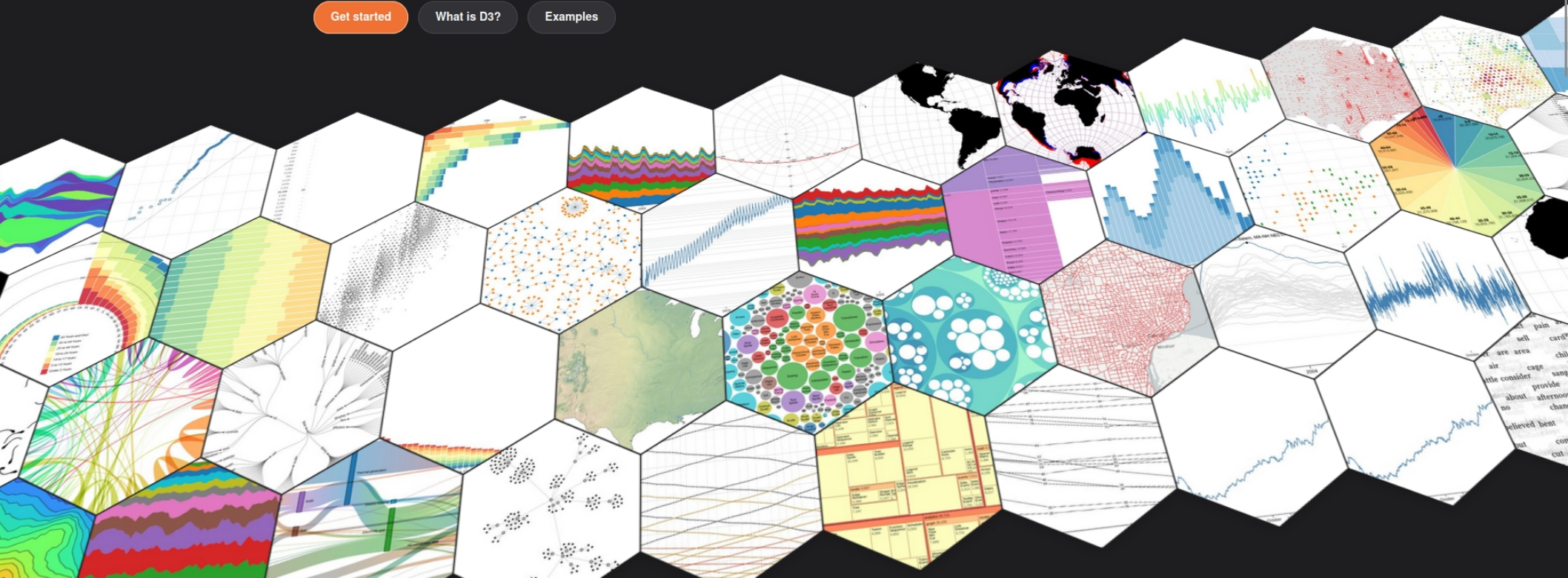
Create custom dynamic visualizations
with unparalleled flexibility

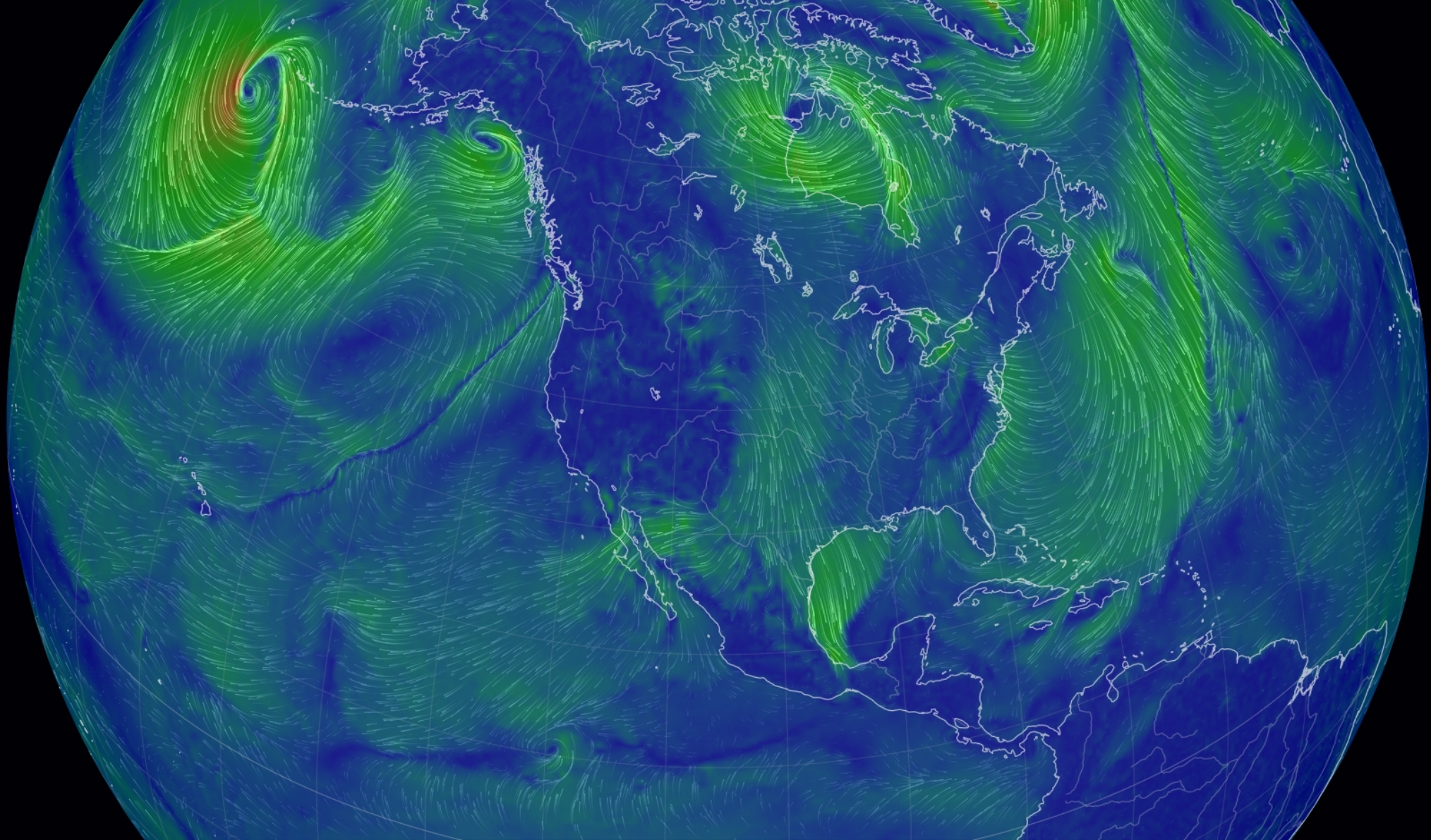


Get started

What is D3?

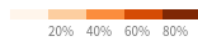
Examples





4. Consistencia y profundidad narrativa

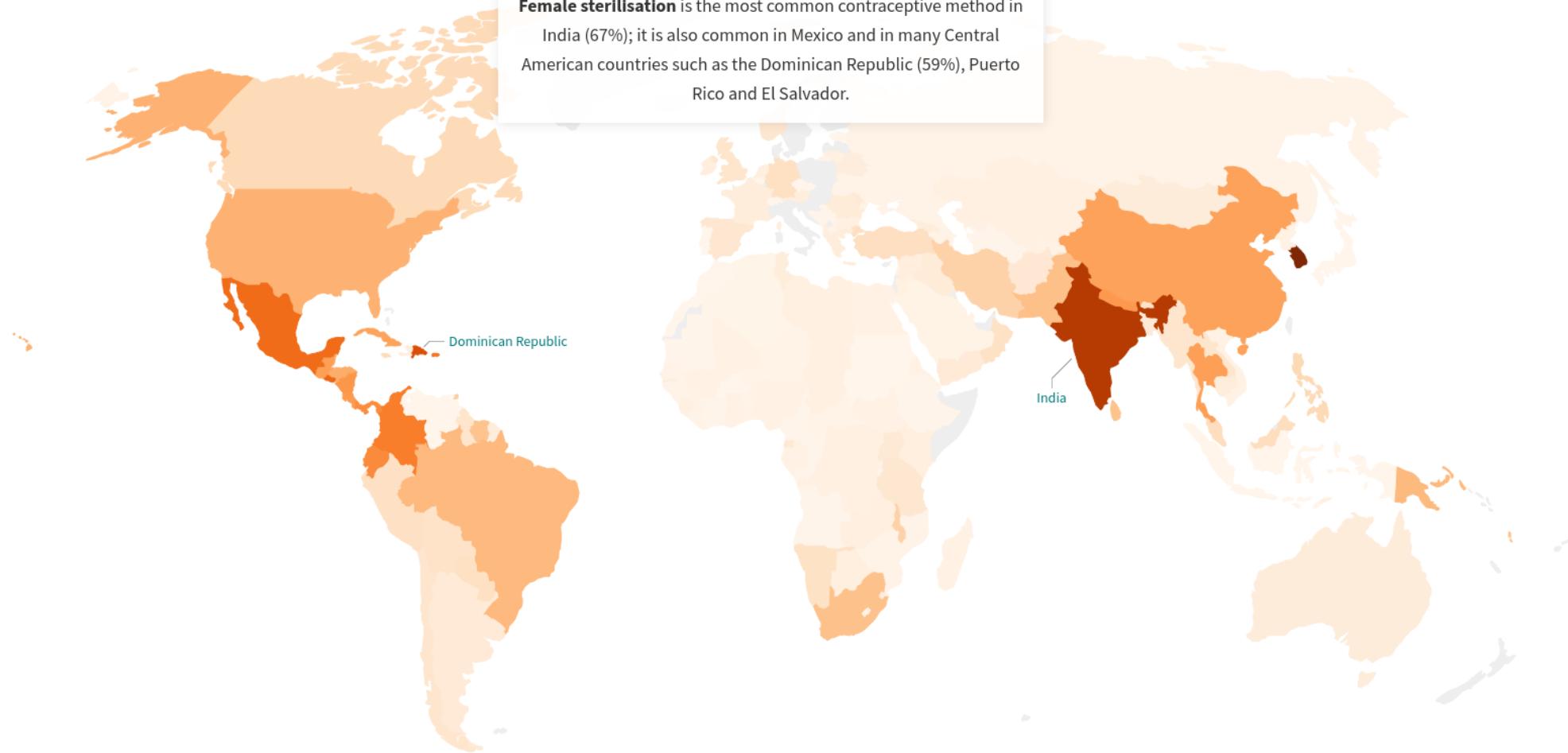
Use of **female sterilization** among women who use birth control



Female sterilisation is the most common contraceptive method in India (67%); it is also common in Mexico and in many Central American countries such as the Dominican Republic (59%), Puerto Rico and El Salvador.

Dominican Republic

India



¡Gracias!

Les esperamos en el curso