

El Aprendiz de Matplotlib

(Data Visualization with Python)



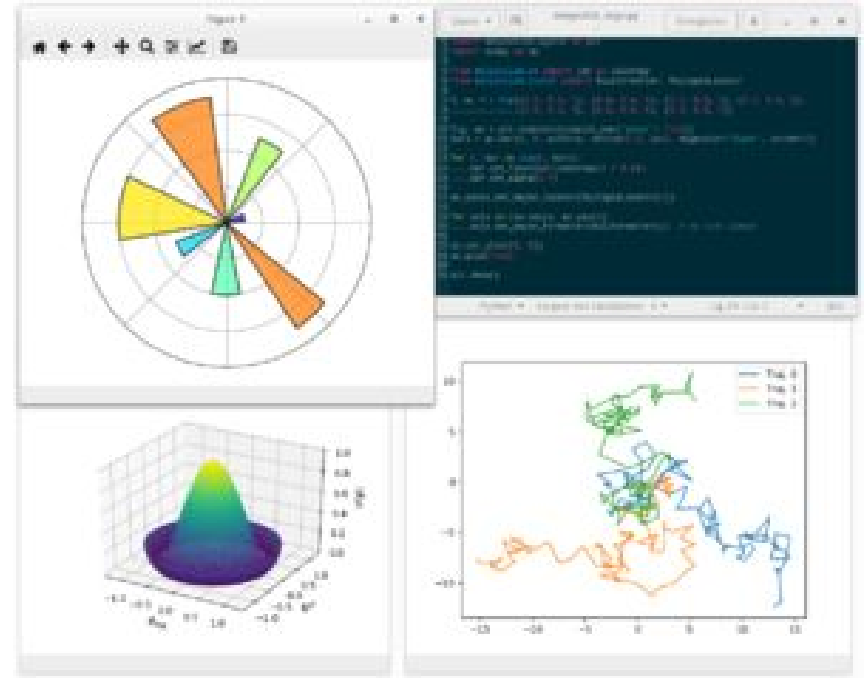
¿Qué es Matplotlib?

Definición

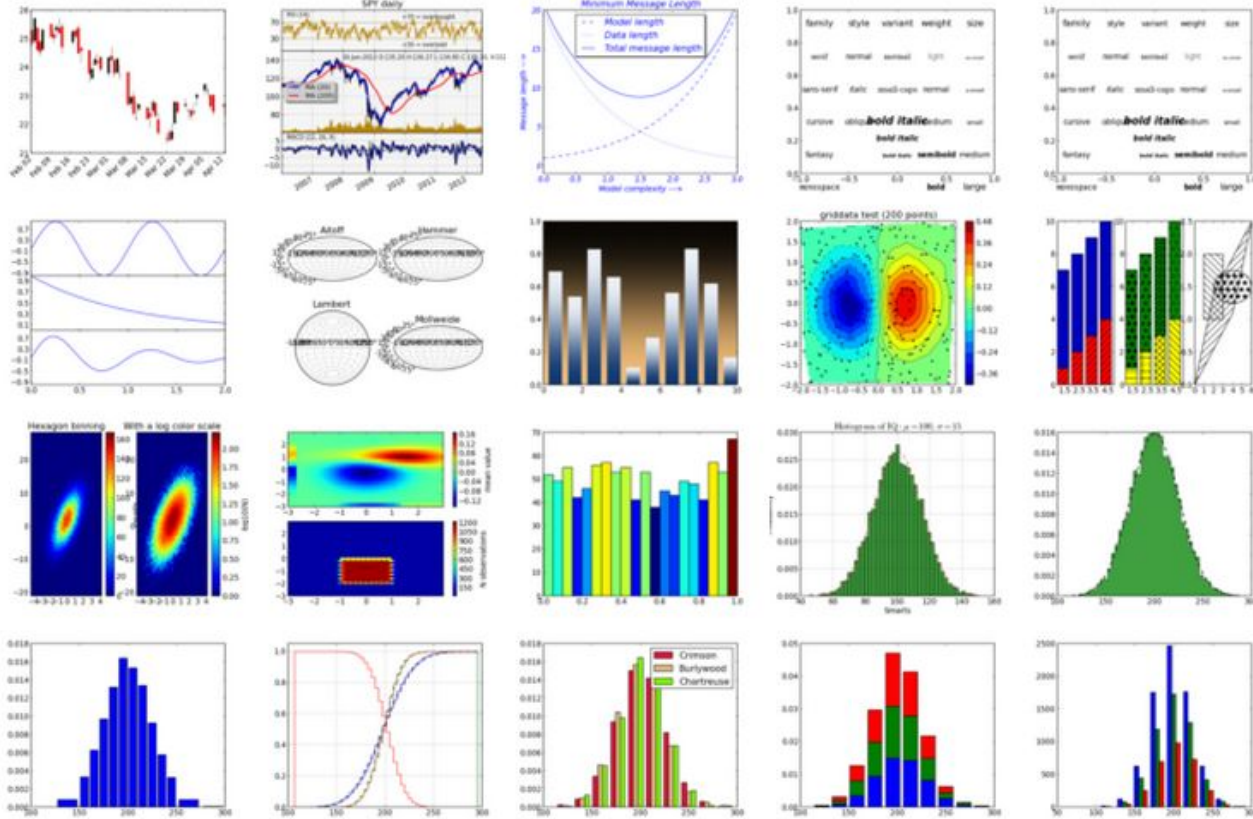


Matplotlib es una librería de Python para la generación de gráficos a partir de datos contenidos en listas o arrays.

Matplotlib está diseñada para ser similar a MATLAB, pero con la ventaja de ser libre y de código abierto.



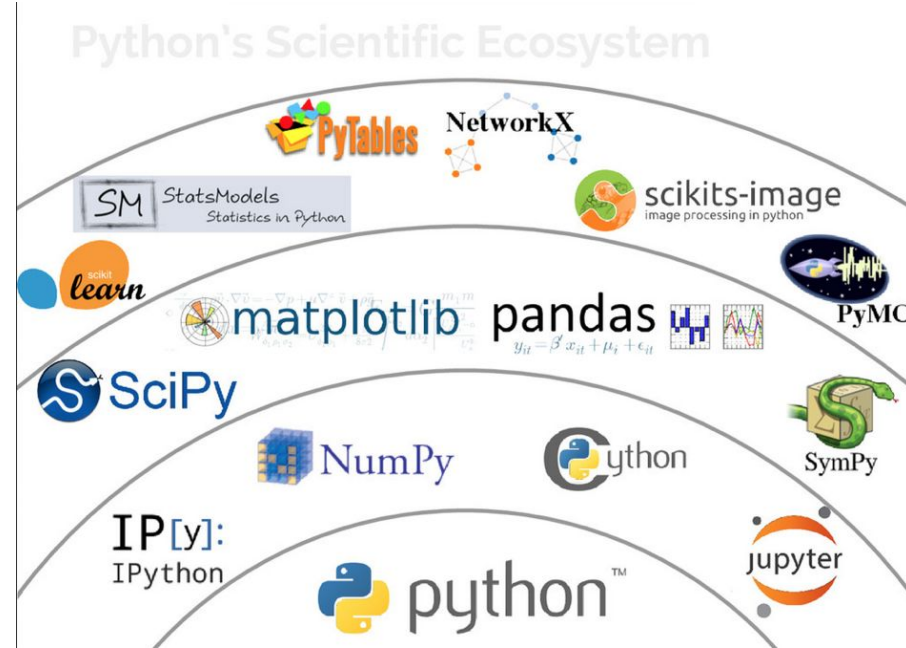
Ejemplos



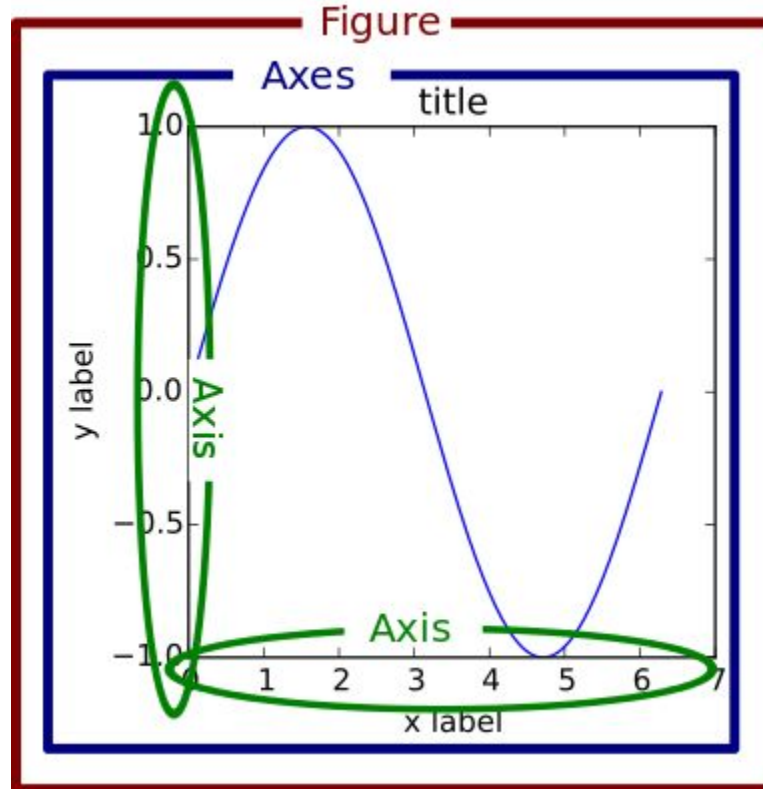
Ecosistema Científico para Python

matplotlib

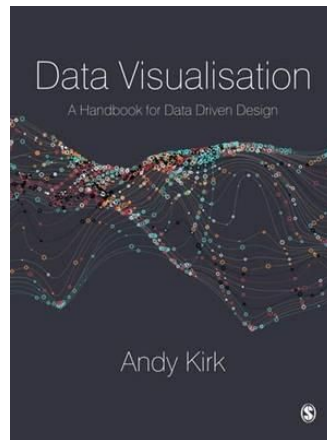
Matplotlib intenta hacer fáciles las cosas fáciles y hacer posibles las cosas difíciles.



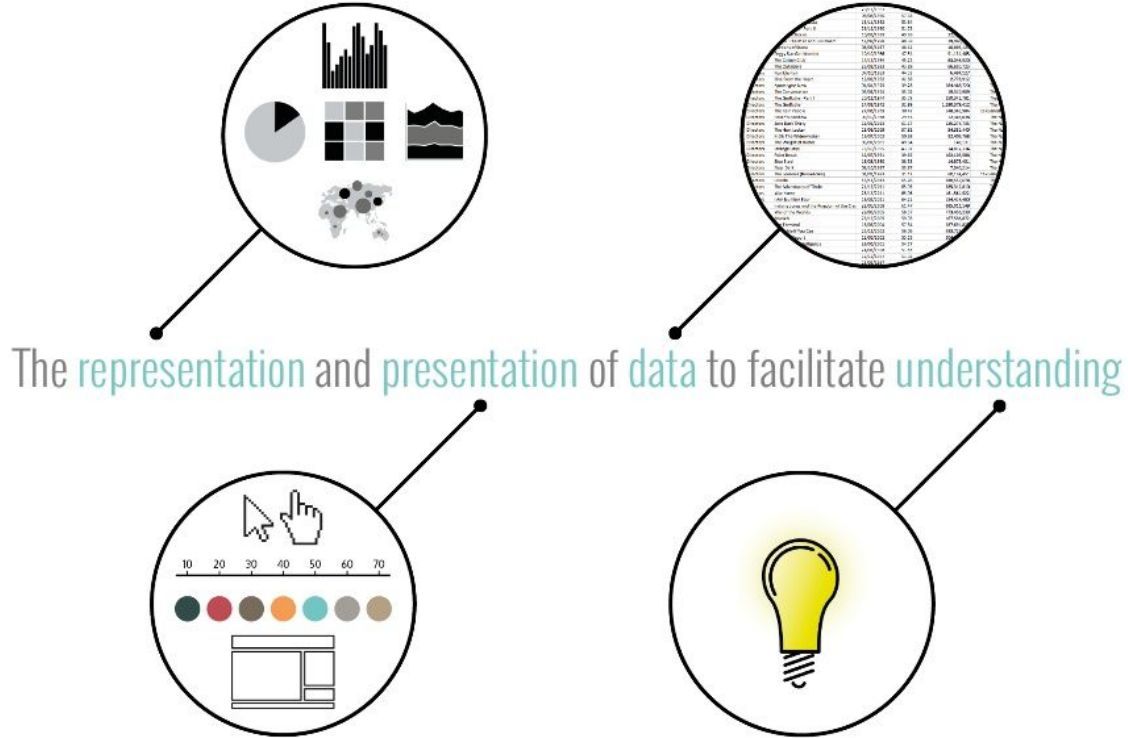
Matplotlib



¿Qué es la Visualización de Datos?



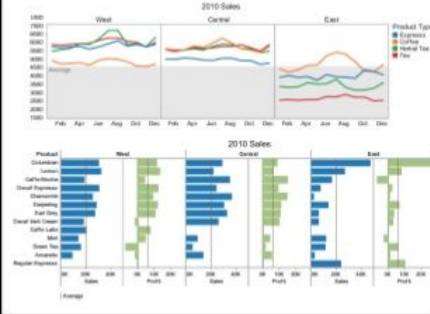
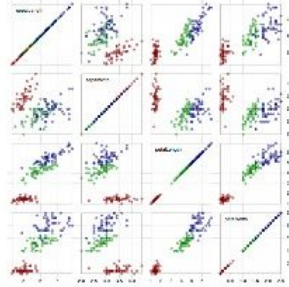
What is data visualisation?



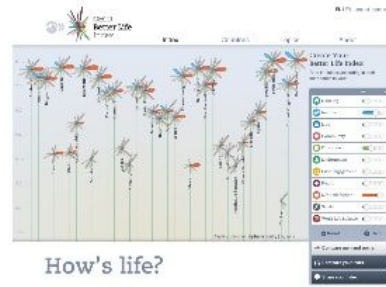
Judging tone

Analytical/Pragmatic

Exploratory



Explanatory



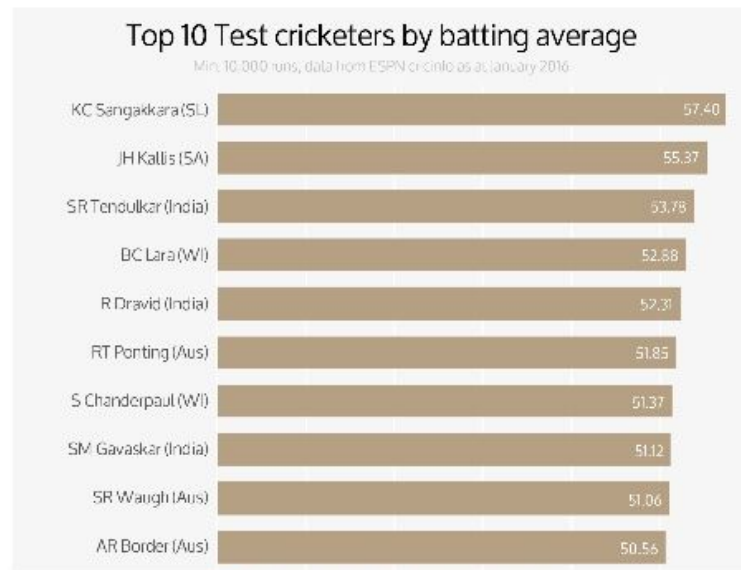
Abstract/Emotive

The trade off between accuracy
and aesthetics:

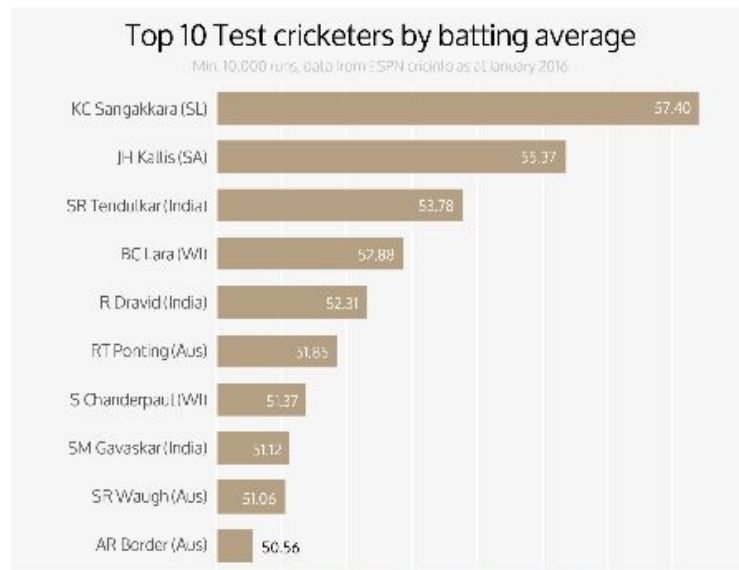
Read data vs Feel data
Pragmatism vs Emotion
Science vs Art

Good data visualisations are TRUSTWORTHY

Lots of different ways of 'lying', intentionally or otherwise



✔ Quantitative (x) axis origin = 0



✘ Quantitative (x) axis origin = 50

Good data visualisations are ACCESSIBLE

Some subjects/analysis/techniques are simple...

Razors Are for the Regular Season

Based on recent photographs, here is how the four remaining teams in the NHL playoffs compare in terms of facial hair. Players are divided into three categories: full beard, scraggly/light beards and clean-shaven.



Note: Results reflect each team's 12 forwards, six defensemen and one goalie with most playing time.

THE WALL STREET JOURNAL

Visualisations from <http://www.wsj.com/articles/who-wins-the-stanley-cup-of-playoff-beards-M31899011>

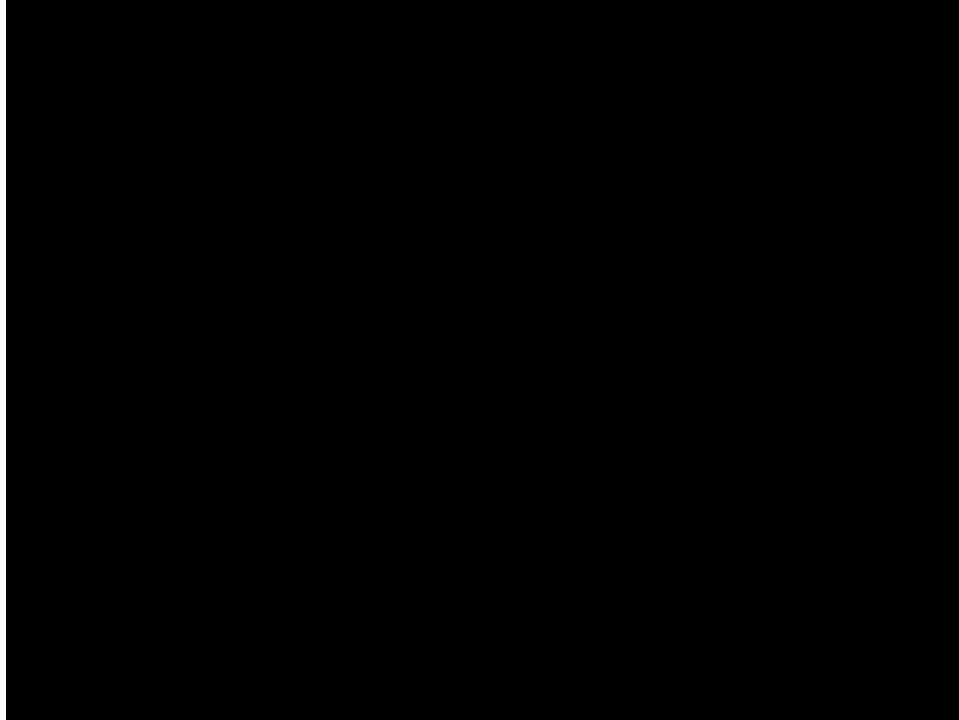
Good data visualisations are ELEGANT

Visual harmony through good editing and holistic thinking



Visualisation by Hyperakt <http://hyperakt.com/work-detail/338>

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Thank you



TECHIDEAS
ENGINEER YOUR DREAMS

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