



NTT Data

# P4DA

## Python for Data Analysis

Pandas

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# Python for Data Analysis

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<https://pandas.pydata.org/>



# Python for Data Analysis



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The screenshot shows the pandas website in a web browser. The browser's address bar shows 'pandas.pydata.org'. The website has a dark blue header with the pandas logo and navigation links: 'About us', 'Getting started', 'Documentation', 'Community', and 'Contribute'. The main content area has a large 'pandas' title, a description: 'pandas is a fast, powerful, flexible and easy to use open source data analysis and manipulation tool, built on top of the Python programming language.', and a blue button that says 'Install pandas now!'. To the right, there's a list of links: 'What's new in 1.5.2', 'Release date: Nov 22, 2022', 'Documentation (web)', and 'Download source code'. Below this is a 'Follow us' section with Twitter and Telegram icons. Further down is a 'Get the book' section featuring the cover of the book 'Python for Data Analysis' by Wes McKinney. At the bottom, there's a 'Previous versions' section showing '1.5.1 (Oct 19, 2022)'. The footer contains logos of sponsors: NUMFOCUS, TWO SIGMA, VOLTRON DATA, d-fine, Quansight Labs, and a green eye logo. The Windows taskbar is visible at the very bottom with the search bar and various application icons.

Mi unidad - Google Drive x pandas - Python Data Analysis x +

← → ↻ pandas.pydata.org

Mis servicios Google Google One Login - Databricks... Qwiklabs - Capacita... https://ai.google/re... tds Visualization with PL... Bienvenida a la bús... Tablero de Aprendi... » Otros marcadores

pandas

About us Getting started Documentation Community Contribute

## pandas

pandas is a fast, powerful, flexible and easy to use open source data analysis and manipulation tool, built on top of the Python programming language.

Install pandas now!

- What's new in 1.5.2
- Release date: Nov 22, 2022
- Documentation (web)
- Download source code

Follow us

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With the support of:

NUMFOCUS OPEN CODE - BETTER SCIENCE

TWO SIGMA

VOLTRON DATA

d-fine

Quansight Labs

Python for Data Analysis Data Wrangling with pandas, NumPy & Jupyter Wes McKinney

Previous versions

- 1.5.1 (Oct 19, 2022)

Escribe aquí para buscar

27°C 09:01 6/1/2023





Wes McKinney

[wesmckinney.com/book](http://wesmckinney.com/book)

Pandas significa Panel de Datos y es una de las bibliotecas más usadas de Python para la manipulación y análisis de los datos, habiendo sido desarrollada inicialmente por Wes McKinney

1D array



axis 0 →

shape: (4,)

2D array

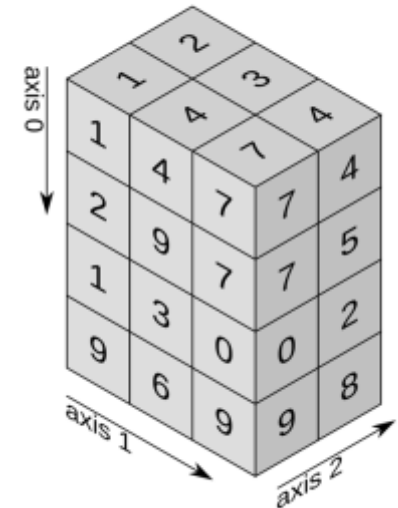


axis 0 ↓

axis 1 →

shape: (2, 3)

3D array



axis 0 ↓

axis 1 →

axis 2 →

shape: (4, 3, 2)

Estructura de Datos de pandas...

# Python for Data Analysis



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The screenshot shows the python.org website. At the top, there's a navigation bar with links to Python, PSF, Docs, PyPI, Jobs, and Community. Below this is a search bar and a 'Donate' button. The main content area features the Python logo and a navigation menu with links to About, Downloads, Documentation, Community, Success Stories, News, and Events. A code snippet is displayed on the left, showing a simple Python program that prints 'Hello, I'm Python!' and asks for the user's name. To the right of the code is a 'Quick & Easy to Learn' section with text about Python's ease of learning and a link to 'Whet your appetite'. At the bottom, there's a statement: 'Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)'.

```
# Simple output (with Unicode)
>>> print("\nHello, I'm Python!\n")
Hello, I'm Python!
# Input, assignment
>>> name = input('What is your name?\n')
What is your name?
Python
>>> print(f'Hi, {name}.')
Hi, Python.
```

**Quick & Easy to Learn**

Experienced programmers in any other language can pick up Python very quickly, and beginners find the clean syntax and indentation structure easy to learn. [Whet your appetite](#) with our Python 3 overview.

Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)

¿Por qué Python para análisis de datos?

Porque ha desarrollado una gran comunidad científica activa de computación interactiva y análisis de datos (ciencia de datos, aprendizaje automático y desarrollo de soft)

# Python for Data Analysis



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A screenshot of the PyPI (Python Package Index) website. The browser window shows multiple tabs, with the active one being "PyPI · El Índice de paquetes de Python". The address bar shows "pypi.org". The website has a blue header with the PyPI logo and navigation links: "Ayuda", "Patrocinadores", "Acceder", and "Registrarse". The main content area has a large blue background with the text "Encuentre, instale y publique paquetes de Python con el Índice de paquetes de Python". Below this is a search bar with the placeholder text "Buscar proyectos" and a magnifying glass icon. Under the search bar, it says "O bien, [explore los proyectos](#)". At the bottom of the main content area, there are statistics: "426.605 proyectos", "4.067.635 versiones", "7.340.144 archivos", and "656.070 usuarios". The footer of the website is partially visible, showing the text "El Índice de paquetes de Python (PyPI) es un repositorio de software para el". The Windows taskbar is visible at the bottom of the screenshot, showing the search bar and various application icons.

Paquetes o  
bibliotecas de  
Python

[pypi.org](https://pypi.org)

## Ecosistema de Pandas

<b>Estadística y Machine Learning</b> <ul style="list-style-type: none"><li>• Sklearn-pandas</li><li>• Statsmodels</li><li>• Featuretools</li><li>• Compose</li></ul>	<b>Bibliotecas Gráficas</b> <ul style="list-style-type: none"><li>• Altair</li><li>• Plotly</li><li>• Seaborn</li><li>• Bokeh</li><li>• QtPandas</li></ul>	<b>IDE</b> <ul style="list-style-type: none"><li>• Ipython</li><li>• Jupyter Notebook</li><li>• Jupyter Lab</li><li>• Spyder</li></ul>	<b>API</b> <ul style="list-style-type: none"><li>• Pandas Datareader</li><li>• pandaSDMX</li><li>• fredapi</li></ul>	<b>Dominios específicos</b> <ul style="list-style-type: none"><li>• Geopandas</li><li>• Xarray</li></ul>	<b>Otros</b> <ul style="list-style-type: none"><li>• Dask</li><li>• Dask-ML</li><li>• Koalas</li><li>• Odo</li><li>• Ray</li><li>• Vaex</li></ul>	<b>Limpieza de datos y validación</b> <ul style="list-style-type: none"><li>• Pyjanitor</li><li>• Engarde</li></ul>	<b>Extensión tipo de datos</b> <ul style="list-style-type: none"><li>• Ciberpandas</li><li>• Pandas-Genomics</li><li>• Pint-Pandas</li></ul>	<b>Herramientas de Desarrollo</b> <ul style="list-style-type: none"><li>• Pandas-stubs</li><li>• Hamilton</li></ul>
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**Nos vemos en los Notebooks...**

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