

# ggplot2



ggplot2 is a plotting system for R, based on the grammar of graphics, which tries to take the good parts of base and lattice graphics and none of the bad parts. It takes care of many of the fiddly details that make plotting a hassle (like drawing legends) as well as providing a powerful model of graphics that makes it easy to produce complex multi-layered graphics.

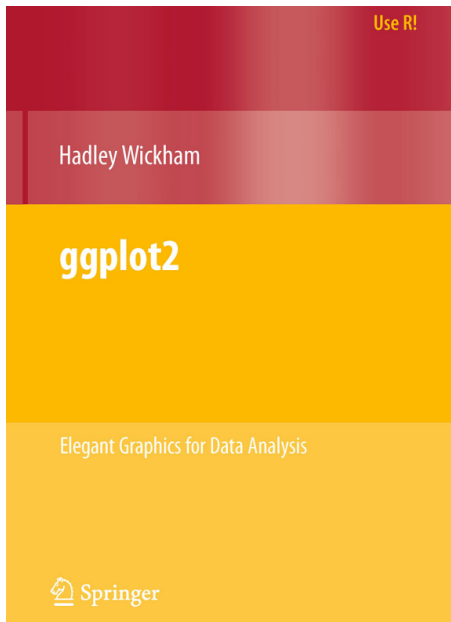
## Documentation

ggplot2 documentation is now available at [docs.ggplot2.org](https://docs.ggplot2.org).

website: [www.had.co.nz](http://www.had.co.nz)



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# ggplot from hat

[About](#) | [Installation](#) | [How It Works](#) | [Docs](#) | [Gallery](#)

`ggplot` is a plotting system for Python based on R's `ggplot2` and the *Grammar of Graphics*. It is built for making professional looking, plots quickly with minimal code.

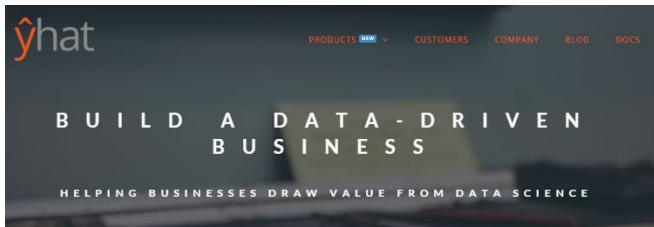
## `ggplot` is easy to learn

```
from ggplot import *

ggplot(aes(x='date', y='beef'), data=meat) +\
    geom_line() +\
    stat_smooth(colour='blue', span=0.2)
```

**Important :**

for Python, the name is simply “**ggplot**”.



**Yhat** (*pronounced y-hat*) is a data science technology company that provides tools and systems that allow enterprises to turn data insights into data-driven products.

## About ggplot

**ggplot** is a graphics package for Python that aims to approximate R's ggplot2 package in both usage and aesthetics.

**Authors:** Greg Lamp and Austin Ogilvie

## What are Yhat saying?

1. ggplot is easy to learn [1]
2. ggplot is fun
3. ggplot is powerful [2]

*[1] Lots of learning resources, mainly intended for the R environment, that can applied to Python also.*

*[2] Less code required to compute high-level publication quality plot*

## 1. Installing ggplot

```
pip install ggplot
```

## 2. Getting Set Up on Jupyter Notebook

```
In [5]: from ggplot import *
```

```
In [6]: %matplotlib inline
```





[overview](#) // [get pandas](#) // [documentation](#) // [community](#)

## Python Data Analysis Library

pandas is an open source, BSD-licensed library providing high-performance, easy-to-use data structures and data analysis tools for the [Python](#) programming language.

**Important:** ggplot accepts data in the form of a pandas Dataframe, so you need to configure all data accordingly first.

Watch out for this operator

```
.... +\ .....
```

```
ggplot(aes(x='date', y='beef'), data=meat) +\  
  geom_line() +\  
  stat_smooth(colour='blue', span=0.2)
```

- ▶ The main command is `ggplot()`.
- ▶
- ▶

A **plot** is made up of multiple layers.

A **layer** consists of **data**, a set of **mappings** between variables and aesthetics, a **geom**etric object and a **stat**istical transformation

**Scales** control the details of the mapping.

All components are independent and reusable.