



```
>>> Introduction to data visualization with Python  
>>> Women in Python
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Name: Saulo Meirelles

Date: May 14, 2019

## >>> Learning objectives



1. Understand the importance of data visualization.

## >>> Learning objectives



1. Understand the importance of data visualization.
2. Create figures (graphs) in Python.

## >>> Learning objectives



1. Understand the importance of data visualization.
2. Create figures (graphs) in Python.
3. Basic data treatment.

## >>> Learning objectives

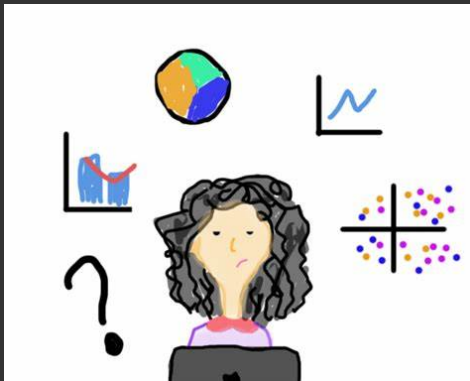


1. Understand the importance of data visualization.
2. Create figures (graphs) in Python.
3. Basic data treatment.

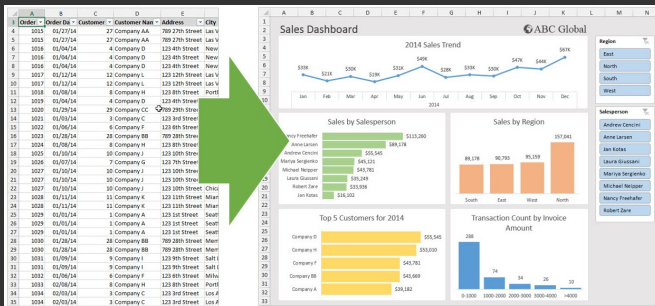
## >>> Definition



Data visualization is the graphical representation of information and data.



# >>> The importance of data visualization



## Grid

### American Stocks

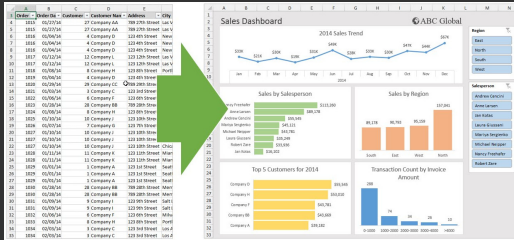
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INDU:IND	17,834.17	18,004.03	21,134.17
SPX:IND	1,932.60	2,012.60	2,132.60
CCMP:IND	4,958.95	5,058.95	5,158.95
NYA:IND	9,609.85	10,209.85	10,609.85
SPTSX:IND	13,468.55	14,168.55	14,468.55

## Chart

### American Stocks



# >>> The importance of data visualization



## Grid

### American Stocks

Name	Jan	Feb	Mar
INDU:IND	17,834.17	18,004.03	21,341.17
SPX:IND	1,932.60	2,012.60	2,132.60
CCMP:IND	4,958.95	5,058.95	5,158.95
NVA:IND	9,609.85	10,209.85	10,609.85
SPTSX:IND	13,468.55	14,368.55	14,468.55

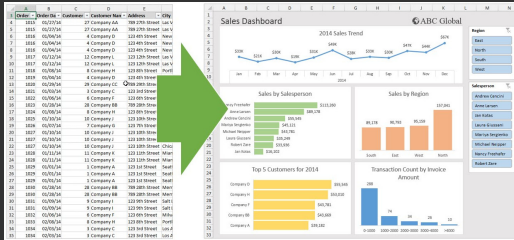
## Chart

### American Stocks





# >>> The importance of data visualization



\* Information is quickly absorbed.

## Grid

### American Stocks

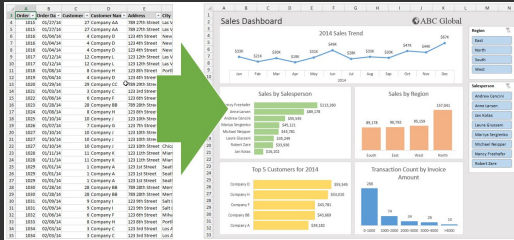
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SPX.IND	1,932.60	2,012.60	2,132.60
CCMP.IND	4,958.95	5,058.95	5,158.95
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## Chart

### American Stocks



# >>> The importance of data visualization



- \* Information is quickly absorbed.
- \* Find trends and outliers.

## Grid

### American Stocks

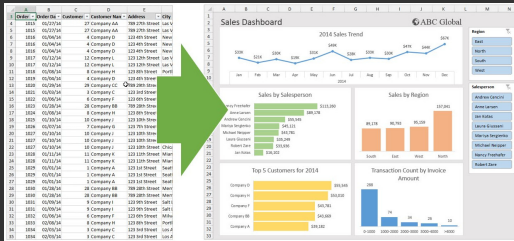
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NVA.IND	9,609.85	10,209.85	10,609.85
SPTXK.IND	13,468.55	14,368.55	14,468.55

## Chart

### American Stocks



# >>> The importance of data visualization



- \* Information is quickly absorbed.
- \* Find trends and outliers.
- \* Identify relationships and patterns.

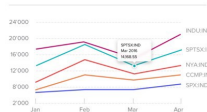
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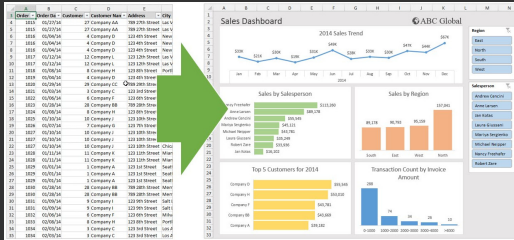
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## Chart

### American Stocks



# >>> The importance of data visualization



- \* Information is quickly absorbed.
- \* Find trends and outliers.
- \* Identify relationships and patterns.
- \* Communicate the story to others.

## Grid

### American Stocks

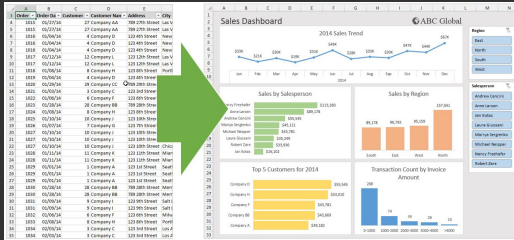
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## Chart

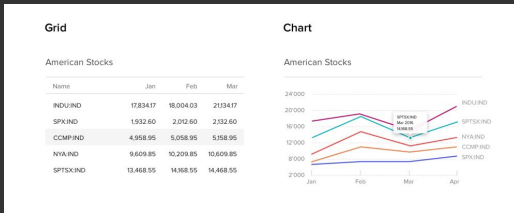
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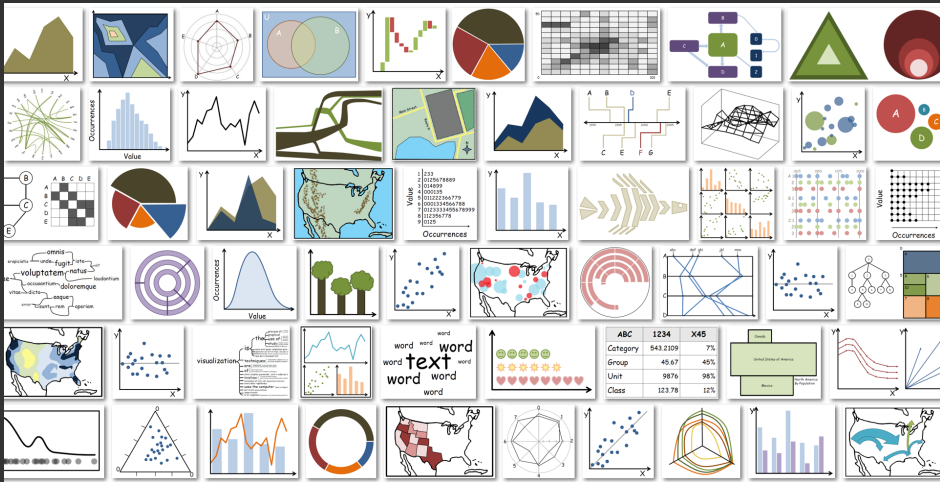
# >>> The importance of data visualization



- \* Information is quickly absorbed.
- \* Find trends and outliers.
- \* Identify relationships and patterns.
- \* Communicate the story to others.
- \* Handle big data.



# >>> Types of charts



>>> Hands on!



## Packages to install

```
conda install -c conda-forge matplotlib  
conda install -c plotly plotly
```