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>>> 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.

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

>>> Learning objectives

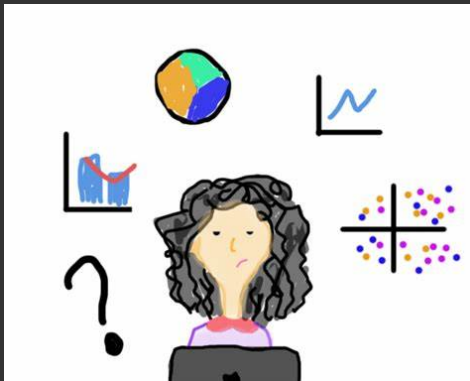


1. Understand the importance of data visualization.
2. Create figures (graphs) in Python.
3. Basic data treatment.

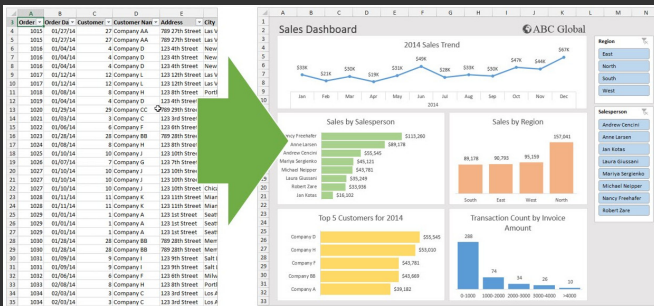
>>> Definition



Data visualization is the graphical representation of information and data.



>>> The importance of data visualization



Grid

American Stocks

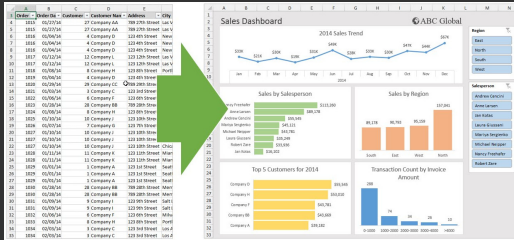
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| CCMP:IND | 4,958.95 | 5,058.95 | 5,158.95 |
| NYA:IND | 9,609.85 | 10,209.85 | 10,609.85 |
| SPTSX:IND | 13,468.55 | 14,168.55 | 14,468.55 |

Chart

American Stocks



>>> The importance of data visualization



Grid

American Stocks

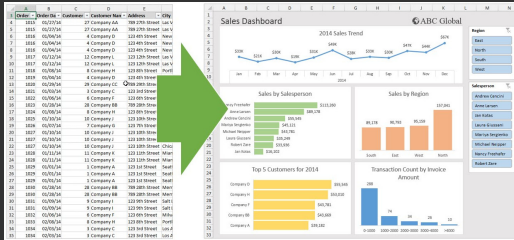
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Chart

American Stocks



>>> The importance of data visualization



* Information is quickly absorbed.

Grid

American Stocks

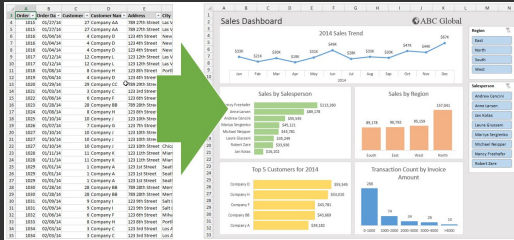
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Chart

American Stocks



>>> The importance of data visualization



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

Grid

American Stocks

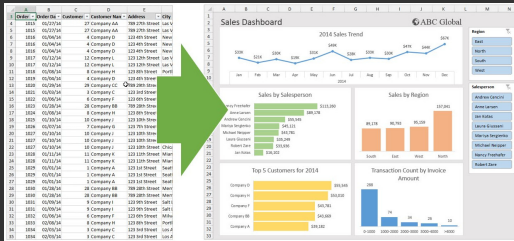
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Chart

American Stocks



>>> The importance of data visualization



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

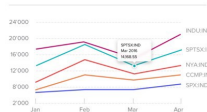
Grid

American Stocks

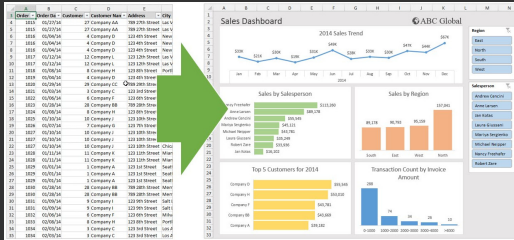
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Chart

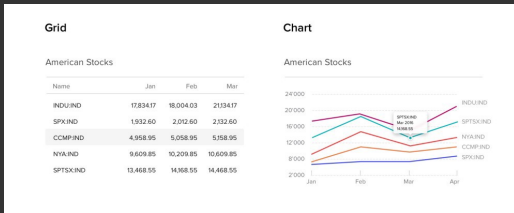
American Stocks



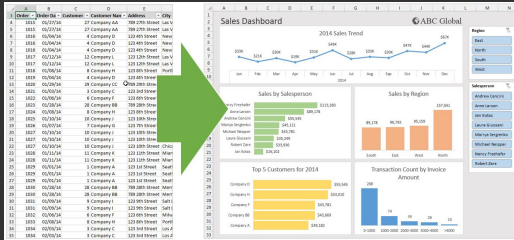
>>> The importance of data visualization



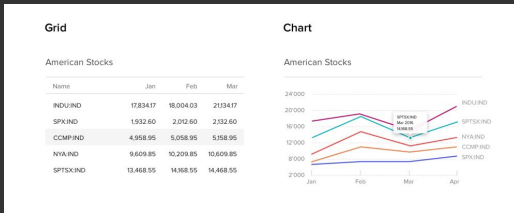
- * Information is quickly absorbed.
- * Find trends and outliers.
- * Identify relationships and patterns.
- * Communicate the story to others.



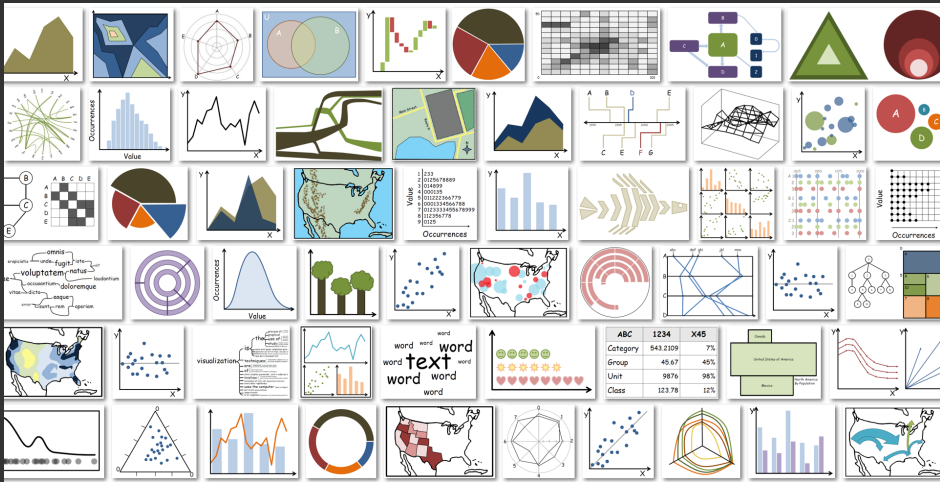
>>> The importance of data visualization



- * 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
```