



Reading: Glossary terms from module 4

Terms and definitions from Course 3, Module 4

Action: A Tableau tool to help an audience interact with a visualization or dashboard by allowing control of selection

Bin: A segment of data that groups values into categories

Box plot: A data visualization that depicts the locality, spread, and skew of groups of values within quartiles

Continuous: A mathematical concept indicating that a measure or dimension has an infinite and uncountable number of outcomes

Dimensions: Qualitative data values used to categorize and group data to reveal details about it

Discrete: A mathematical concept indicating that a measure or dimension has a finite and countable number of outcomes

Heatmap: A type of data visualization that depicts the magnitude of an instance or set of values based on two colors

Histogram: A data visualization that depicts an approximate representation of the distribution of values in a dataset

Measures: Numeric values that can be aggregated or placed in calculations

Set: A Tableau term for a custom field of data created from a larger dataset based on custom conditions

Story: A Tableau term for a group of dashboards or worksheets assembled into a presentation

Tableau: A data visualization software primarily used for presenting data to inform and improve businesses

Terms and definitions from previous modules

B

Bias: In data structuring, refers to organizing data results in groupings, categories, or variables that are misrepresentative of the whole dataset

Box plot: A data visualization that depicts the locality, spread, and skew of groups of values within quartiles

C

Categorical data: Data that is divided into a limited number of qualitative groups

Cleaning: The process of removing errors that may distort your data or make it less useful; one of the six practices of EDA

Collective outliers: A group of abnormal points, following similar patterns and isolated from the rest of the population

Contextual outliers: Normal data points under certain conditions but become anomalies under most other conditions

CSV file: A simple text file that can be easy to import or store in other softwares, platforms, and databases

D

Database (DB) file: A file type used to store data, often in tables, indexes, or fields

Data ethics: Well-founded standards of right and wrong that dictate how data is collected, shared, and used

Data governance: A process for ensuring the formal management of a company's data assets

Data source: The location where data originates

Data visualization: A graph, chart, diagram, or dashboard that is created as a representation of information

Deduplication: The elimination or removal of matching data values in a dataset

Discovering: The process data professionals use to familiarize themselves with the data so they can start conceptualizing how to use it; one of the six practices of EDA

Docstring: (Refer to **documentation string**)

Documentation string: A group of text that explains what a method or function does; also referred to as a “docstring”

Dummy variables: Variables with values of 0 or 1 that indicate the presence or absence of something

E

Exploratory data analysis (EDA): The process of investigating, organizing, and analyzing datasets and summarizing their main characteristics, often by employing data wrangling and visualization methods; the six main practices of EDA are: discovering, structuring, cleaning, joining, validating, and presenting

Extracting: The process of retrieving data out of data sources for further data processing

F

Filtering: The process of selecting a smaller part of a dataset based on specified values and using it for viewing or analysis

First-party data: Data that was gathered from inside your own organization

G

Global outliers: Values that are completely different from the overall data group and have no association with any other outliers

Grouping: The process of aggregating individual observations of a variable into groups

H

Heatmap: A type of data visualization that depicts the magnitude of an instance or set of values based on two colors

Hypothesis: A theory or an explanation, based on evidence, that is not yet proven true

I

Info(): Gives the total number of entries, along with the data types—called Dtypes in pandas—of the individual entries

Input validation: The practice of thoroughly analyzing and double-checking to make sure data is complete, error-free, and high quality

Int64: A standard integer data type, representing numbers somewhere between negative nine quintillion and positive nine quintillion

J

Joining: The process of augmenting data by adding values from other datasets; one of the six practices of EDA

JSON file: A data storage file that is saved in a JavaScript format

L

Label encoding: Data transformation technique where each category is assigned a unique number instead of a qualitative value

M

Merging: A method to combine two (or more) different data frames along a specified starting column(s)

Missing data: A data value that is not stored for a variable in the observation of interest

N

Non-null count: The total number of data entries for a data column that are not blank

O

One-hot encoding: A data transformation technique that turns one categorical variable into several binary variables

Outliers: Observations that are an abnormal distance from other values or an overall pattern in a data population

P

PACE: A workflow data professionals can use to remain focused on the end goal of any given dataset; stands for plan, analyze, construct, and execute

Presenting: The process of making a cleaned dataset available to others for analysis or further modeling; one of the six practices of EDA

S

Second-party data: Data that was gathered outside your organization but directly from the original source

Slicing: A method for breaking information down into smaller parts to facilitate efficient examination and analysis from different viewpoints

Sorting: The process of arranging data into a meaningful order for analysis

String: A sequence of characters and punctuation that contains textual information

Structuring: The process of taking raw data and organizing or transforming it to be more easily visualized, explained, or modeled; one of the six practices of EDA

T

Third-party data: Data gathered outside your organization and aggregated

V

Validating: The process of verifying that the data is consistent and high quality; one of the six practices of EDA
