

# Continue Learning Excel

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**Carlos Gutierrez**

SOFTWARE ENGINEER, DATA ANALYST



“This is a fundamental truth about any sort of practice: If you never push yourself beyond your comfort zone, you will never improve”

**Anders Ericsson**



# Key Concepts

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# Sample Data

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Mockaroo  
<https://mockaroo.com>

 realistic data generator ? [PRICING](#) [SIGN IN](#)

Need some mock data to test your app? Mockaroo lets you generate up to 1,000 rows of realistic test data in CSV, JSON, SQL, and Excel formats. Download data using your browser or sign in and create your own [Mock APIs](#).

[Need more data? Plans start at just \\$50/year](#). Mockaroo is also available as a [docker image](#) that you can deploy in your own private cloud.

Field Name	Type	Options
<div>id</div>	Row Number	blank: 0 % <div>fx</div> ×
<div>first_name</div>	First Name	blank: 0 % <div>fx</div> ×
<div>last_name</div>	Last Name	blank: 0 % <div>fx</div> ×
<div>email</div>	Email Address	blank: 0 % <div>fx</div> ×
<div>gender</div>	Gender	blank: 0 % <div>fx</div> ×
<div>ip_address</div>	IP Address v4	blank: 0 % <div>fx</div> ×
<div>Add another field</div>		

# Rows: 

1000

 Format: 

CSV

 Line Ending: 

Unix (LF)

 Include: ☒ header ☐ BOM

Download Data

Preview

 | 

More

Want to save this for later? [Sign up for free](#).



Mockaroo  
<https://mockaroo.com>

Choose a Type

Find Type...

All (143)

Location (14)

Commerce (14)

Advanced (10)

Personal (28)

Nature (5)

Car (1)

Basic (27)

IT (21)

Health (17)

Products (6)

City

New York

Berlin

London

Latitude

48.52469361225269

72.26886762838888

-12.592370752117404

Postal Code

Region-specific postal codes (not available for all locations).

Street Address

Street number, name, and suffix

6449 Pine View Drive

Street Suffix

Drive

Terrace

Street

Country

Germany

France

Japan

Longitude

-45.15259533671917

115.70563293321999

81.9426325226724

State

State/Province

worldwide

Street Name

Street name

Pine View Drive

Time Zone

America/Los Angeles

Europe/Budapest

Pacific/Fiji

Country Code

ES

GR

FR

Phone

8-(598)633-6672

Binomial Distribution

Generates numbers based on a binomial distribution with a specific probability of success.

Blank

Always generates a null value

Boolean

true

false

Custom List

Picks items randomly or sequentially from a custom list of values

Encrypt

Simulates encrypted text

Exponential Distribution

Generates numbers based on an exponential distribution with a specific  $\lambda$  rate.

GUID

36 character hex guid

ddee19bc-84fd-4627-897c-dec7c8010977

Geometric Distribution

Generates numbers based on a geometric distribution with a specific probability of success.

Frequency

Never, Once, Seldom, Often, Daily, Weekly, Monthly, Yearly

# UCI Machine Learning Repository

<https://archive.ics.uci.edu/ml/index.php>



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**Machine Learning Repository**  
Center for Machine Learning and Intelligent Systems

## Welcome to the UC Irvine Machine Learning Repository!









We currently maintain 483 data sets as a service to the machine learning community. You may [view all data sets](#) through our searchable interface. For a general overview of the Repository, please visit our [About page](#). For information about citing data sets in publications, please read our [citation policy](#). If you wish to donate a data set, please consult our [donation policy](#). For any other questions, feel free to [contact the Repository librarians](#).

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Latest News:	Newest Data Sets:	Most Popular Data Sets (hits since 2007):
<p><b>09-24-2018:</b> Welcome to the new Repository admins Dheeru Dua and Efi Karra Taniskidou!</p> <p><b>04-04-2013:</b> Welcome to the new Repository admins Kevin Bache and Moshe Lichman!</p> <p><b>03-01-2010:</b> <a href="#">Note</a> from donor regarding Netflix data</p> <p><b>10-16-2009:</b> Two new data sets have been added.</p> <p><b>09-14-2009:</b> Several data sets have been added.</p> <p><b>03-24-2008:</b> New data sets have been added!</p> <p><b>06-25-2007:</b> Two new data sets have been added: UJI Pen Characters, MAGIC Gamma Telescope</p>	<p><b>09-21-2019:</b>  <a href="#">Online Retail II</a></p> <p><b>09-20-2019:</b>  <a href="#">Beijing Multi-Site Air-Quality Data</a></p> <p><b>09-20-2019:</b>  <a href="#">MEX</a></p> <p><b>07-30-2019:</b>  <a href="#">PPG-DaLiA</a></p>	<p><b>2857294:</b>  <a href="#">Iris</a></p> <p><b>1589758:</b>  <a href="#">Adult</a></p> <p><b>1232848:</b>  <a href="#">Wine</a></p> <p><b>1040967:</b>  <a href="#">Car Evaluation</a></p>



# UCI Machine Learning Repository

<https://archive.ics.uci.edu/ml/index.php>

## Car Evaluation Data Set

Download: [Data Folder](#), [Data Set Description](#)

**Abstract:** Derived from simple hierarchical decision model, this database may be useful for testing constructive induction and structure discovery methods.

Data Set Characteristics:	Multivariate	Number of Instances:	1728	Area:	N/A
Attribute Characteristics:	Categorical	Number of Attributes:	6	Date Donated	1997-06-01
Associated Tasks:	Classification	Missing Values?	No	Number of Web Hits:	1040969

### Source:

Creator:

Marko Bohanec

Donors:

1. Marko Bohanec ([marko.bohanec '@' ijs.si](mailto:marko.bohanec@ijs.si))
2. Blaz Zupan ([blaz.zupan '@' ijs.si](mailto:blaz.zupan@ijs.si))

### Data Set Information:

Car Evaluation Database was derived from a simple hierarchical decision model originally developed for the demonstration of DEX, M. Bo decision making. Sistemica 1(1), pp. 145-157, 1990.). The model evaluates cars according to the following concept structure:

- CAR car acceptability
  - . PRICE overall price
    - . . buying buying price
    - . . maint price of the maintenance
  - . TECH technical characteristics
    - . . COMFORT comfort
      - . . . doors number of doors
      - . . . persons capacity in terms of persons to carry
      - . . . lug\_boot the size of luggage boot
    - . . safety estimated safety of the car





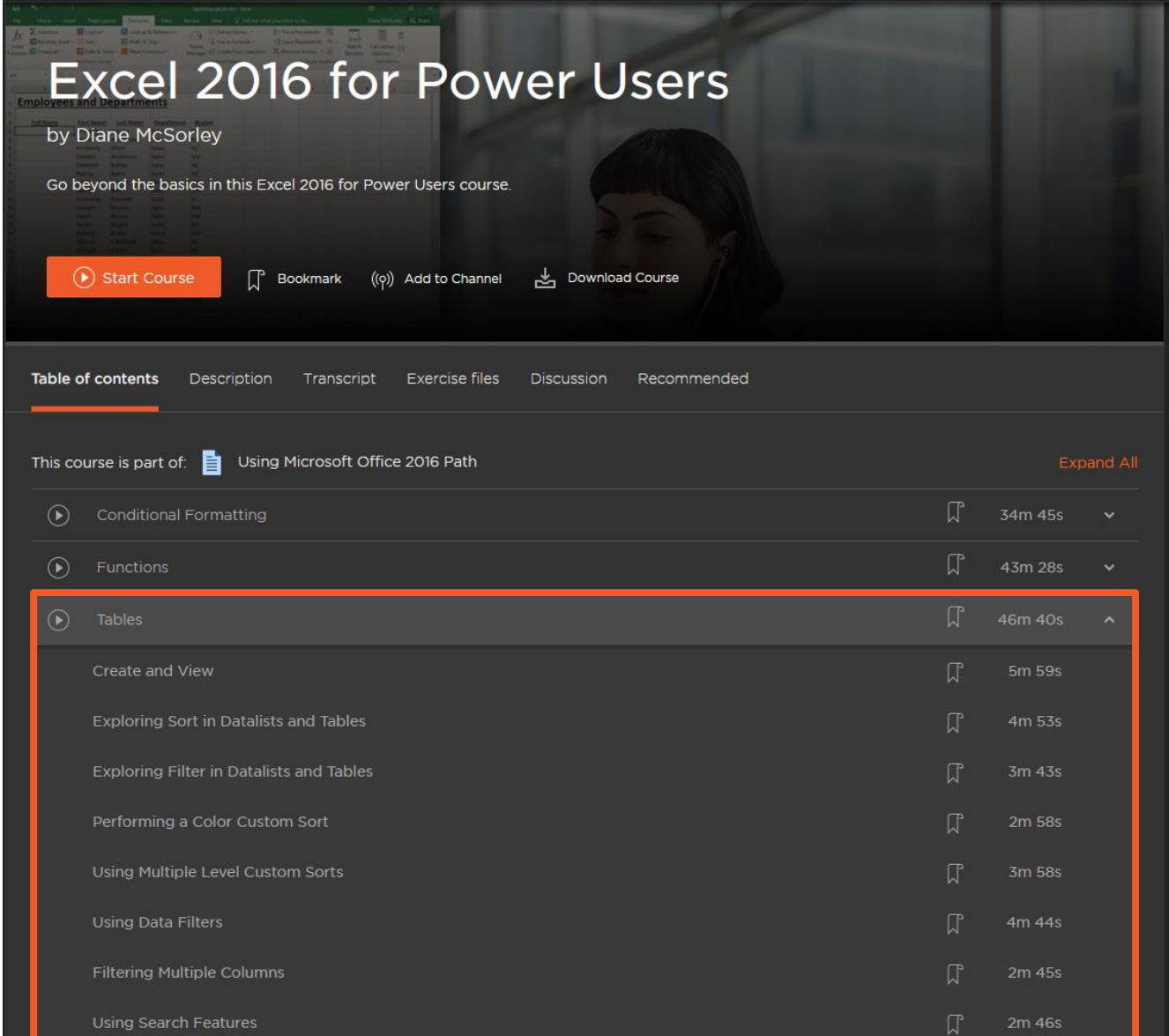
# Data Preparation

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# Excel 2016 for Power Users

Diane McSorley



## Excel 2016 for Power Users

by Diane McSorley

Go beyond the basics in this Excel 2016 for Power Users course.

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**Table of contents** | Description | Transcript | Exercise files | Discussion | Recommended

This course is part of: [Using Microsoft Office 2016 Path](#) [Expand All](#)

▶ Conditional Formatting	34m 45s	▼
▶ Functions	43m 28s	▼
▶ Tables	46m 40s	▲
Create and View	5m 59s	
Exploring Sort in Datalists and Tables	4m 53s	
Exploring Filter in Datalists and Tables	3m 43s	
Performing a Color Custom Sort	2m 58s	
Using Multiple Level Custom Sorts	3m 58s	
Using Data Filters	4m 44s	
Filtering Multiple Columns	2m 45s	
Using Search Features	2m 46s	

<https://app.pluralsight.com/library/courses/excel-2016-power-users/table-of-contents>



# Data Analytics: Hands On

## Ben Sullins

**Course Goals**

# Data Analytics: Hands On

by Ben Sullins

Learn the basics

Learn all of the key concepts in the world of data analytics. This course will walk you through everything you need to know to brush up on your data analytics knowledge or introduce you to every key area if you're entirely new to the subject.

Resume Course Bookmark Add to Channel Download Course

**Table of contents** Description Transcript Exercise files Discussion Learning Check Recommended

Expand All

Getting Started	18m 27s	▼
Excel Basics	24m 0s	▼
Massaging Data in Excel	28m 17s	▲
Introduction	26s	
What Is Massaging Data?	45s	
Why Message Data?	43s	
How It Works	1m 4s	
Demo: Vlookup	8m 26s	
Demo: Vlookup & Match	4m 33s	
Demo: Removing Duplicates	11m 26s	
Where to Find More	51s	

<https://app.pluralsight.com/library/courses/data-analytics-hands-on/table-of-contents>



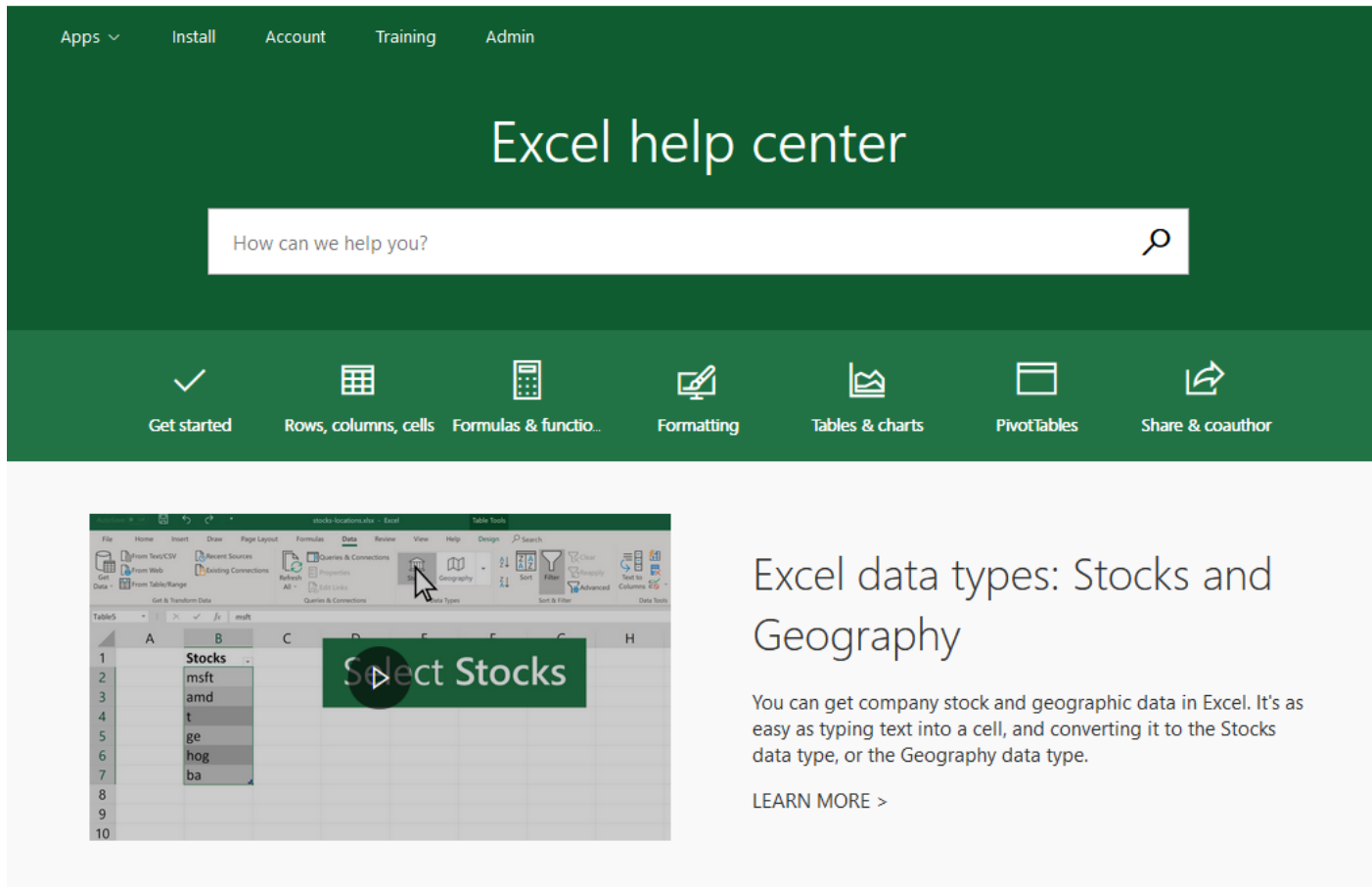
# External References

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## Excel help center

<https://support.office.com/en-us/excel>



The top part of the image shows the Excel help center interface. It has a dark green header with navigation links: Apps, Install, Account, Training, and Admin. Below this is a large search bar with the text "Excel help center" and a placeholder "How can we help you?". Under the search bar is a row of icons representing different help topics: Get started, Rows, columns, cells, Formulas & functions, Formatting, Tables & charts, PivotTables, and Share & coauthor.

The bottom part of the image shows a screenshot of an Excel spreadsheet. The spreadsheet has a table with columns A through H and rows 1 through 10. The table is titled "Stocks" and contains the following data:

	A	B	C	D	E	F	G	H
1		Stocks						
2		msft						
3		amd						
4		t						
5		ge						
6		hog						
7		ba						
8								
9								
10								

A green button with a play icon and the text "Select Stocks" is overlaid on the spreadsheet. To the right of the spreadsheet, the text "Excel data types: Stocks and Geography" is displayed, followed by a paragraph explaining that you can get company stock and geographic data in Excel by typing text into a cell and converting it to the Stocks data type or the Geography data type. Below this is a link "LEARN MORE >".



# Available chart types in Office

<https://support.office.com/en-us/excel>

## Windows

## macOS

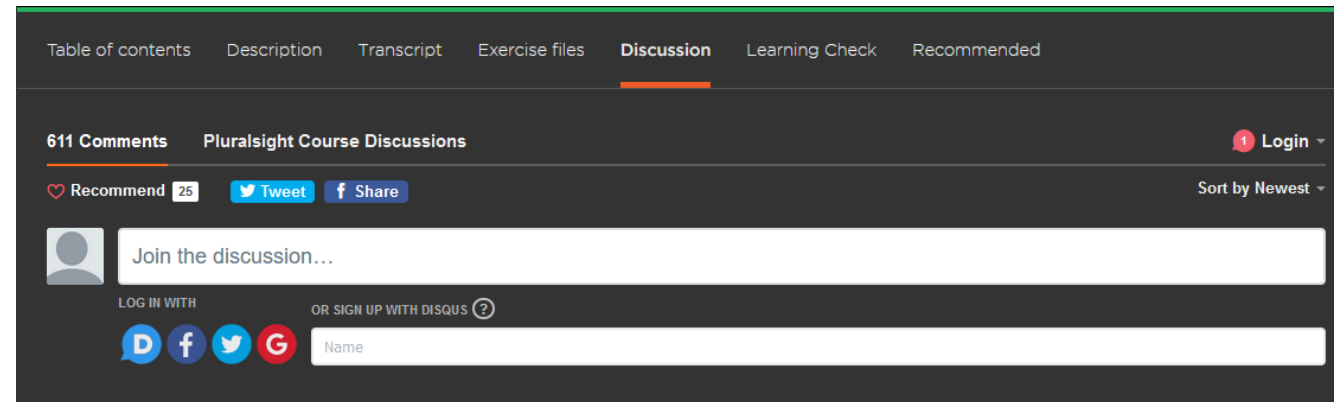
For a description of each chart type, select an option from the following drop-down list.

Column chart	▼
Line chart	▼
Pie and doughnut charts	▼
Doughnut charts	▼
Bar chart	▼
Area chart	▼
XY (scatter) and bubble chart	▼
Bubble chart	▼
Stock chart	▼
Surface chart	▼
Radar charts	▼
Treemap chart (Office 2016 and newer versions only)	▼
Sunburst chart (Office 2016 and newer versions only)	▼
Histogram charts (Office 2016 and newer versions only)	▼
Box and Whisker charts (Office 2016 and newer versions only)	▼
Waterfall charts (Office 2016 and newer versions only)	▼
Funnel charts (Office 2016 and newer versions only)	▼
Combo charts (Office 2013 and newer versions only)	▼
Map chart (Excel only)	▼



# Course materials

<https://pluralsight.com>



# Practice





Thank You

