

Hands-on Helpers, Workshop Links and Saving Files

Data Science Program

Module 1 /DS101: Basic Statistics

Data Science Program

Hands-on Helpers:

- For this module they are mainly Exams.
- We want you to get the feel of the program and how everything works.
- We have created a hands-on Helper for lesson 7, since it is hands-on and not an exam.
- Lesson 7 – coming soon

If you don't have Excel...

- Free alternatives:
 - [Google Sheets](#)
 - [LibreOffice Calc Spreadsheets](#)
- [Google Sheets Extra Training](#)
- [Excel Extra Training](#)
- [Libre Tutorial](#)

Workshops: [Vimeo Showcase](#)

- [DS101 - Companion Notebook Workshops](#)
- Lesson 7 Workshop
 - [Independent t-test](#)
 - [Dependent t-test](#)
 - [Single Sample t-test](#)

Save Excel Files and add to GitHub Repo:

Windows:

- Save Excel Files
- UnZip Files
- Zip Files
- Save to Github Repo
- [Basic Keyboard Shortcuts](#)

Mac:

- Save Excel Files
- UnZip Files
- Zip Files
- Save to Github Repo
- [Basic Keyboard Shortcuts](#)

Module 2 / DS102: Programming in R

Data Science Program

Hands-on Helpers:

- [Lesson 3](#)
- [Lesson 5](#)
- [Lesson 7](#)
- Lesson 9 – coming soon
- [Lesson 10](#)

Workshops: [Vimeo Showcase](#)

- [DS102 - Companion Notebook Workshops](#)
- [Lesson 3 Workshop](#)
- Lesson 5 Workshop – Joe working on it
- Lesson 7 Workshop
 - [Independent t-test](#)
 - [Dependent t-test](#)
 - For the t-test in the Hands-on, be sure to use the vector names, not `datasetName$columnName`
- [Lesson 9 Workshop](#)
- [Final](#)
- [Cheat Sheets for R](#)

Save R Scripts and add to GitHub Repo:

Windows:

- Save R Scripts
- UnZip Files
- Zip Files
- Save to Github Repo

Mac:

- Save R Scripts
- UnZip Files
- Zip Files
- Save to Github Repo

Module 3 / DS108: Databases

Data Science Program

Hands-on Helpers:

- SQL:
- [Lesson 2](#)
- NoSQL:
- [Connecting MongoDB to VScode](#)

Workshops: [Vimeo Showcase](#)

- SQL:
- [DS108 SQL - Companion Notebook Workshops](#)
- [Lesson 2](#)
- [Lesson 4](#)
- [Lesson 5](#)

- NoSQL:
- [Connecting MongoDB to VScode](#)
- [Lesson 2](#)
- Lesson 4 – no video
- [Lesson 5](#)

Save Screenshots to a Document File and add to GitHub Repo:

Windows:

- How to take screen shots
- Add screen shots to Document
- UnZip Files
- Zip Files
- Save to Github Repo
- [Cheat Sheet for SQL](#)
- [Cheat Sheet for MongoDB](#)

Mac:

- How to take screen shots
- Add screen shots to Document
- UnZip Files
- Zip Files
- Save to Github Repo
- [Cheat Sheet for NoSQL](#)
- [Cheat Sheet Mongo Shell](#)

Module 4 / DS109: Programming in Python

Data Science Program

Hands-on Helpers:

- [Lesson 2](#)
- [Lesson 3](#)
- [Lesson 4](#)
- [Lesson 6](#)
- [Lesson 8](#)
- [Lesson 9](#)
- [Final](#)

Workshops: [Vimeo Showcase](#)

- [DS109 – Companion Notebook Workshops](#)
- Lesson 1
 - Python Basics
 - [Opening a Python Script in VScode](#)
 - [Creating main.py in command prompt](#)
- [Lesson 2](#)
- Lesson 3
 - [ifElse](#)
 - [Python List](#)
- [Lesson 4](#)
- [Lesson 6](#)
- [Lesson 9](#)
- [Final](#)
- [Cheat Sheet Python](#)

Save Python Files and add to GitHub Repo:

Windows:

- Save Python Scripts
- UnZip Files
- Zip Files
- Save to Github Repo
- [Command Prompt Commands](#)
- [Jupyter Basics](#)
- [Jupyter Shortcuts](#)

Mac:

- Save Python Scripts
- UnZip Files
- Zip Files
- Save to Github Repo
- Terminal Commands ??

Module 5 / DS104: Data Wrangling & Visualization

Data Science Program

Hands-on Helpers:

- [Lesson 2](#)
- [Lesson 4](#)
- [Lesson 6](#)
- Lesson 9 – coming soon
- Final – coming soon

Workshops: [Vimeo Showcase](#)

- [DS104 – Companion Notebook Workshops](#)
 - [Lesson 2](#)
 - Lesson 4
 - [R](#)
 - [Python](#)
 - [Lesson 6](#)
 - [Lesson 9](#)
 - [Final](#)
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- [Cheat Sheet Tableau](#)
 - [Tableau Training Videos](#)
 - [Tableau Examples](#)
 - [Tableau Showcase](#)
 - [Common Codes for Data Wrangling](#)

Save Python & R Files and add to GitHub Repo:

Windows:

- R:
 - How to find Paths
 - How to Import Data R
 - Save R Scripts
-
- Python:
 - How to find Paths
 - How to Import Data Python
 - Save Python Scripts

Mac:

- R:
 - How to find Paths
 - How to Import Data R
 - Save R Scripts
-
- Python:
 - How to find Paths
 - How to Import Data Python
 - Save Python Scripts

Module 6 / DS105: Intermediate Statistics

Data Science Program

Hands-on Helpers:

- [Lesson 1](#)
- Lesson 2 – coming soon
 - R
 - Python
- Lesson 3 – coming soon
- Lesson 4
 - [R](#)
 - [Python](#)
- [Lesson 8](#)
- [Lesson 9](#)
- [Final](#)

Workshops: [Vimeo Showcase](#)

- [DS105 – Companion Notebook Workshops](#)
- [Lesson 1](#)
- [Lesson 2](#)
- [Lesson 3](#)
- Lesson 4
 - R – [Part1](#) and [Part2](#)
 - Python – [Part1](#) and [Part2](#)
- Lesson 8
 - [Part1](#) and [Part2](#)
- [Lesson 9](#)
- [Final](#)

Module 7 / DS106: Modeling and Machine Learning

Data Science Program

Hands-on Helpers:

- Modeling:
 - [Lesson 2](#)
 - Lesson 3 – coming soon !!! (nonlinear)
 - Lesson 5 - coming soon (random numbers)
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- Machine Learning:
 - [Lesson 1](#)
 - [Lesson 3](#)

Workshops: [Vimeo Showcase](#)

- Modeling:
 - [DS106 Modeling – Companion Notebooks Workshops](#)
 - [Lesson 2](#)
 - Lesson 3 – coming soon !!! (nonlinear)
 - Lesson 5
 - [Excel](#)
 - [Python](#)
- Machine Learning:
 - [DS106 Machine Learning – Companion Notebooks Workshops](#)
 - Lesson 1 – coming soon (diamonds)
 - [Lesson 3](#)
- Common Codes for [Data Wrangling](#) before you do machine learning

Save Python & R Files and add to GitHub
Repo:

Module 8 / DS107

Big Data

Data Science Program

Do NOTs:

- This module is under Construction
- Do NOT download any additional Programs
- If you download some of these programs, it may crash your computers. Please follow our instructions.

DOs:

- [Introduction to AWS](#)
 - Look out for the AWS email (check spam folder)
 - We are moving away from AWS Educate and transitioning to AWS Academy
 - Do the alternative assignments located at the end of each lesson. Where the hands-on is typically located.
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- Starting at Lesson 9
 - You may download GitKraken
 - Here is a [workshop on GitKraken](#)

Module 9 / DS103: Metrics & Data Processing and Project Management

Data Science Program

Hands-on Helpers:

- Metrics and Processing:
 - Lesson 1 - coming soon
 - Lesson 2 - coming soon
 - Lesson 3 - coming soon
 - Lesson 4 - coming soon
 - Lesson 5 - coming soon
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- Project Management:
 - [Lesson 3 / 4](#)

Workshops: [Vimeo Showcase](#)

- [DS103 – Companion Notebooks Workshops](#)

Save Screenshots to a Document File and add to GitHub Repo:

Windows:

- How to take screen shots
- Add screen shots to Document
- UnZip Files
- Zip Files
- Save to Github Repo

Mac:

- How to take screen shots
- Add screen shots to Document
- UnZip Files
- Zip Files
- Save to Github Repo

Happy Coding

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