

Week 2: Tools For Data Science

Quiz 1: Jupyter Notebook

1.

Question 1

Which of the following functions do Jupyter Notebook unify?

1 / 1 point

☐

Editing and execution of source code.

☐

Editing and display of documentation.

☐

Visualization of charts.

☒

All of the above.

Correct

2.

Question 2

Which statement is true about Jupyter Notebook?

1 / 1 point

☒

Jupyter Notebook is free and open source.

☐

Jupyter Notebook is a commercial product of IBM.

Correct

3.

Question 3

What is a Jupyter Notebook kernel?

1 / 1 point

☐

It is part of the operating system the Jupyter server runs on.

☒

It is a wrapper running on the Jupyter server encapsulating the programming language interpreter.

Correct

Quiz 2: RStudio IDE

1.

Question 1

Which of the following functions does RStudio unify? (Select all that apply.)

1 / 1 point

☐

Storing of data.

☒

Editing and execution of source code.

Correct

☒

Display of the R Console.

Correct

☒

Visualization of plots.

Correct

☒

Visualization of data in table form.

Correct

2.

Question 2

Which statement is true about the RStudio IDE?

1 / 1 point

☐

RStudio is a commercial product of IBM.

☒

RStudio is free and open source.

Correct

3.

Question 3

Which statement about R packages is correct?

1 / 1 point

☒

R currently supports more than 15,000 packages which can be installed to extend R's functionality.

☐

R doesn't require any packages to be installed since it contains all functionality necessary which a data scientist ever requires.

Quiz 3: GitHub

1.

Question 1

Which of the following statements are true? (Select all that apply.)

1 / 1 point

☐

Git is very useful for data science as well, since data science often involves a lot of source code to be written and managed.

Correct

☐

Git is a system for version control of source code.

Correct

☐

Git is an integrated development environment for data science.

2.

Question 2

Which of the following statements about repositories are correct? (Select all that apply.)

1 / 1 point

☐

The remote repository is only accessible by myself.

☐

The local repository is only accessible by myself.

Correct

☐

The staging is only accessible by myself.

Correct

☐

The remote repository is accessible by all contributors.

Correct

☐

The local repository is accessible by all contributors.

3.

Question 3

What is the best process for contributing a bugfix to a foreign repository?

1 / 1 point

☐

Send the fix via email to the author.

☐

Fork the repository, update the fork and create a pull request.



Ask the repository owner for write access to the repository.

Correct

Graded Quiz

1.

Question 1

What tool do most Python developers use?

1 / 1 point



RStudio



Jupyter Notebooks / JupyterLab

Correct

2.

Question 2

True or false? Jupyter Notebooks / JupyterLab support development in R.

1 / 1 point



True



False

Correct

3.

Question 3

Which tool unifies documentation, source code and data visualizations into a single document?

1 / 1 point



Jupyter Notebooks / JupyterLab



VSCode



Notepad

Correct

4.

Question 4

Which command is used to install packages in R?

1 / 1 point

☐

install.packages("package name")

☐

package("package name")

☐

install("package name")

☒

install.package("package name")

Correct

5.

Question 5

True or False: The Jupyter Notebook kernel must be installed on a local server.

1 / 1 point

☒

True

☐

False

Correct

6.

Question 6

True or false? RStudio supports development in Python.

1 / 1 point

☒

True

☐

False

Correct