# R-Studio IDE – full class tutorial

This is all based roughly on <https://campus.datacamp.com/courses/working-with-the-rstudio-ide-part-1/orientation?ex=5>

When you first open, you get 3 panes.

Console, Environment, Files.

When you open a new file, you get the source pane. Everything in RStudio works around these four panes. They help you organize your work, and they separate the different tasks that you will do with R.

You can resize the panes by dragging them around.

Let’s start with the console pane. The console pane allows you to run code one line at a time.

CTRL+L with clear the console. Up and down arrows allow you to scroll through previous commands.

Use tab for code completion (it will automatically appear after you type 3 characters).

Show how students can work with this using read.csv.

**Source Pane**

A text-editor that you can use to compose R code and text documents.

File ->New File -> RScript for a fresh file

File->Open File

File->Recent File

Notice that the tab completion works here just like before.

If you want to run a selection of code, you can click the Run button.

CTRL+Enter runs the line or selection.

Click the source button to run the code.

Click source with echo to see results of each line.

To save a file, click file-save or file-save as.

You can customize the font size by clicking Tools->Global Options and then selecting the appearance tab.

**The View() function in RStudio**

Show View(iris). Show how they can filter and sort data.

Ask them to sort the data by Petal.Width in descending order, what species is at the top?

**The Environment Pane**

Top right.

The environment tab show the objects that currently exist in the R Session.

Broom button to clear all objects.

**The History tab**

Can see all of the previous commands that you’ve run.

**The Files pane**

The Files tab displays the contents of your working directory.

**The plots pane and the packages pane**

Have students source the gopractice R file. Move around to different plots. How many plots do you see?

Get rid of them as needed.

Use faithful data set.

Do a ggplot of eruptions vs waiting. Can save images.

**Packages tab.**

Shows all packages

**Help pane**

You can search for a function

You can run help(\_\_\_\_).

Or ?object\_name

Or by highlighting the function name and press F1.

**Viewer tab**

Have students run function go2

HTML widget viewing.

We’ll use this a bit later when we start looking at RMarkdown.

Hold off on projects for right now. Let’s jump into some exciting things.