Worksheet 9: Work in a group to make a poster

Note: programming is often done by one person in silence, but a lot of research shows that we learn better when we talk about what we are learning. That's why we do a group activity today.

1. Pick a random letter between A and D using the `sample()` function. (*hint 1*: first make a vector with the letters A, B, C and D, then pass that vector to `sample()`; *hint 2*: sample() takes two arguments. The first is a vector and the second is the size of the sample you want, in this case 1)

2. Your random letter determines what is your topic for today:

   - A. Functions in R
   - B. Datatypes in R
   - C. Plots in R
   - D. For loops in R

3. Take 5 minutes to write down everything you know about your topic. If you run out of ideas, google your topic to find more.

4. Form a group with the others who have the same topic, and make a "poster" in Markdown format (.md) with the most important concepts you collected together *and append/copy it below*.

Name:

Date:

Yay! I hope you learned something from your colleagues

Worksheet 10 `ACTG306_Tutorial_A.R`: working with sequence data

Download the tutorial and go through its steps and tasks.

Worksheet 11 Do a Swirl tutorial in Rstudio

1. Open Rstudio, install the swirl package using the `install.packages()` function and then load the swirl package using the `library()` command.

2. Open swirl by typing `swirl()`. When swirl asks you what course you want to do, **choose 1: R Programming**.

   - Then there will be the choice between 15 different tutorials. Pick one that looks useful to you. I would not start with the apply functions, but any other tutorial is fine.

3. Make notes here about the most important things you learn in the tutorial you chose:

Awesome! I hope you like swirl and come back to it later!

Name:

Date:

Worksheet 12: Do codeschool TryR chapter 6

1. Why do you think is it more practical to have data in a data.frame then in individual vectors?

2. You've learned three ways to extract a column from a data.frame. Which are they?

3. The `read.table()` and `read.csv()` functions are extremely useful. Which are the different arguments for these functions used in the tutorial?

Great. Almost done with all the codeschool stuff!

Name:

Date: