R Packages

Select one of the following packages to investigate the structure of. Each one is an example of a small package that does one thing well.

1. `reprex` (https://github.com/tidyverse/reprex): makes reproducible examples of code to post to forums for help.
2. `glue` (https://github.com/tidyverse/glue): glues strings together.
3. `fs` (https://github.com/r-lib/fs): tools for working with your file system.
4. `janitor`(https://github.com/sfirke/janitor): simple data cleaning helpers.

1. Who is the first author of the package? Where did you find this information?

2. What is the official one sentence description of the package?

3. How many functions does the package export to the user? Where did you find this information?

4. What is the path to the r script that holds the source of the first exported function?

5. Try running the first examples that show up in the README. Where could you have used the package on any of your previous projects?

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6. Write a function called `hello()` that takes just one argument, a string `x`, and prints "Hello x!" (but with the value of `x` swapped in). Provide the function below and also run it at your console so that it exists in your environment.

7. Using `package.skeleton()`, create a package called `greetr` that holds just one item: the function `hello()`. Sketch the file tree of the package below.

8. Fill in `DESCRIPTION` with information suitable to this simple package (you can pick your own version number and I recommend the MIT license). Write your description file below.

9. What command will build your new package into the tarball file that can be shared with others?

10. *Optional*: Publish the package to your personal account on GitHub using the steps in lecture.