

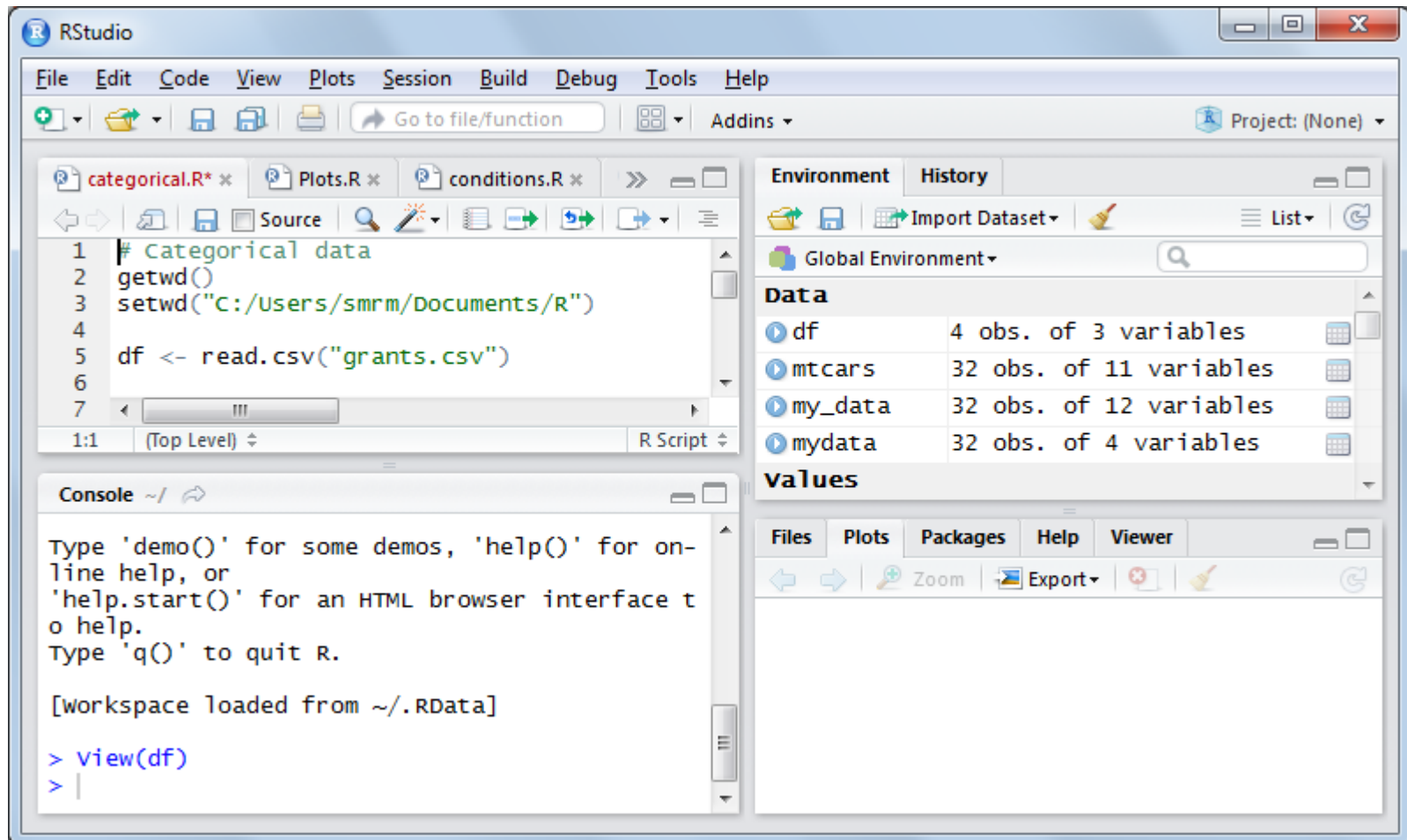
Basics of R programming (R tools)

Outline

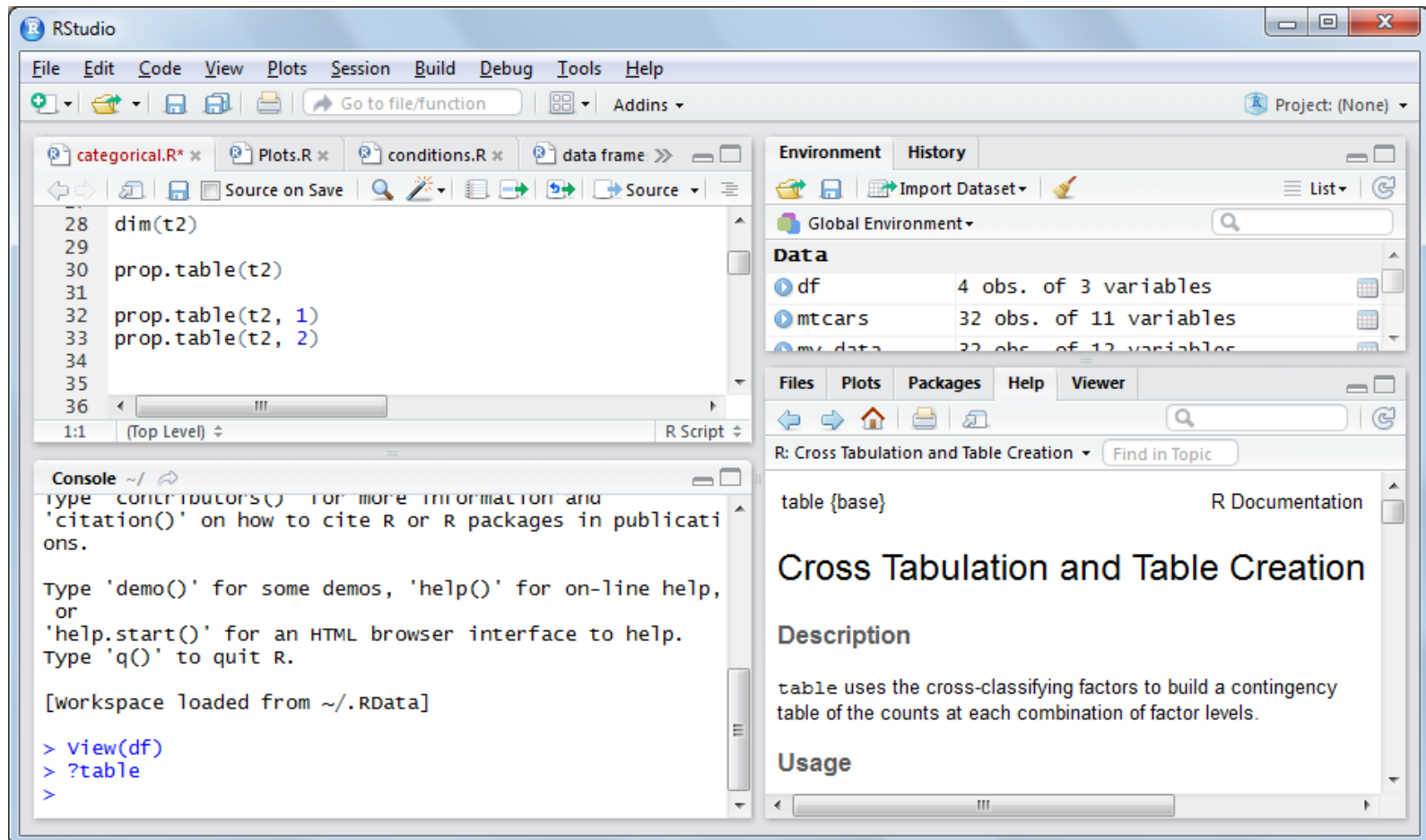
Topics:

- 1. R
 - 1.1 R, R-scripts.
 - 1.2 Asking questions in R
 - 1.3 Installing and loading R packages
- 2. Rstudio (Integrated Development Environment, an IDE for R)
- 3. Git. Git commands
- 4. Github
- 5. Stages in data analysis.

Rstudio. Integrated Development Environment



Rstudio. Asking questions in Rstudio



Git. Git commands

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\smrm>git
usage: git [--version] [--exec-path=<path>] [--html-path] [--man-path] [--info-
-path]
        [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
        [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
        [-c name=value] [--help]
        <command> [<args>]

The most commonly used git commands are:
add      Add file contents to the index
bisect   Find by binary search the change that introduced a bug
branch   List, create, or delete branches
checkout Checkout a branch or paths to the working tree
clone    Clone a repository into a new directory
commit   Record changes to the repository
diff     Show changes between commits, commit and working tree, etc
fetch    Download objects and refs from another repository
grep     Print lines matching a pattern
init     Create an empty git repository or reinitialize an existing one
log      Show commit logs
merge    Join two or more development histories together
mv       Move or rename a file, a directory, or a symlink
pull     Fetch from and merge with another repository or a local branch
push     Update remote refs along with associated objects
rebase   Forward-port local commits to the updated upstream head
reset    Reset current HEAD to the specified state
rm       Remove files from the working tree and from the index
show     Show various types of objects
status   Show the working tree status
tag      Create, list, delete or verify a tag object signed with GPG

See 'git help <command>' for more information on a specific command.

C:\Users\smrm>
```

Github



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🕒 Joined on 11 Jul 2016

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[epkuznetsova.github.io](#)

Forked from [barryclark/jekyll-now](#)

Build a Jekyll blog in minutes, without touching the command line.

★ 0 ● CSS

[getting-and-cleaning-data-final-project](#)

Coursera: Final Project. Getting and Cleaning Data

★ 0 ● R

[NLP-project](#)

NLP project

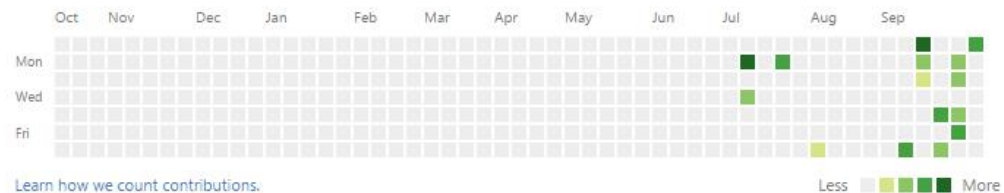
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[indeed](#)

Data Science jobs analysis

★ 0 ● Jupyter Notebook

51 contributions in the last year



Stages in data analysis

- defining a question of interest
- identifying the ideal data set
- determining if that data is even accessible
- obtain the data whether it's from a database, or from a website
- cleaning the data up so that it can be processed and analyzed
- exploratory analysis
- performing statistical prediction or modeling
- Interpreting your results
- synthesizing and writing results in reproducible ways that can be shared with other people.
- distributing results through things like interacting graphics, presentations, and through interactive apps built on top of R

<https://www.r-project.org/> - main site

<https://cran.r-project.org/mirrors.html> CRAN mirrors

<https://cran.r-project.org/bin/windows/base/> download for Windows

www.rstudio.com RStudio

www.github.com Version control site

<https://git-scm.com/downloads> Git

```
$ git config --global user.name "Your Name Here"  
$ git config --global user.email "your_email@example.com"
```

```
$ git config --list
```

```
$ exit
```