

Quick Guide to loading data and packages

Getting going with R

And R Studio

**If you are not already
familiar with R**

Install R and R Studio
Open R Studio

It will look a bit like this

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
R version 3.1.1 (2014-07-10) -- "Sock it to Me"
Copyright (c) 2014 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

> |

Environment History

Import Dataset Clear List

Global Environment

Environment is empty

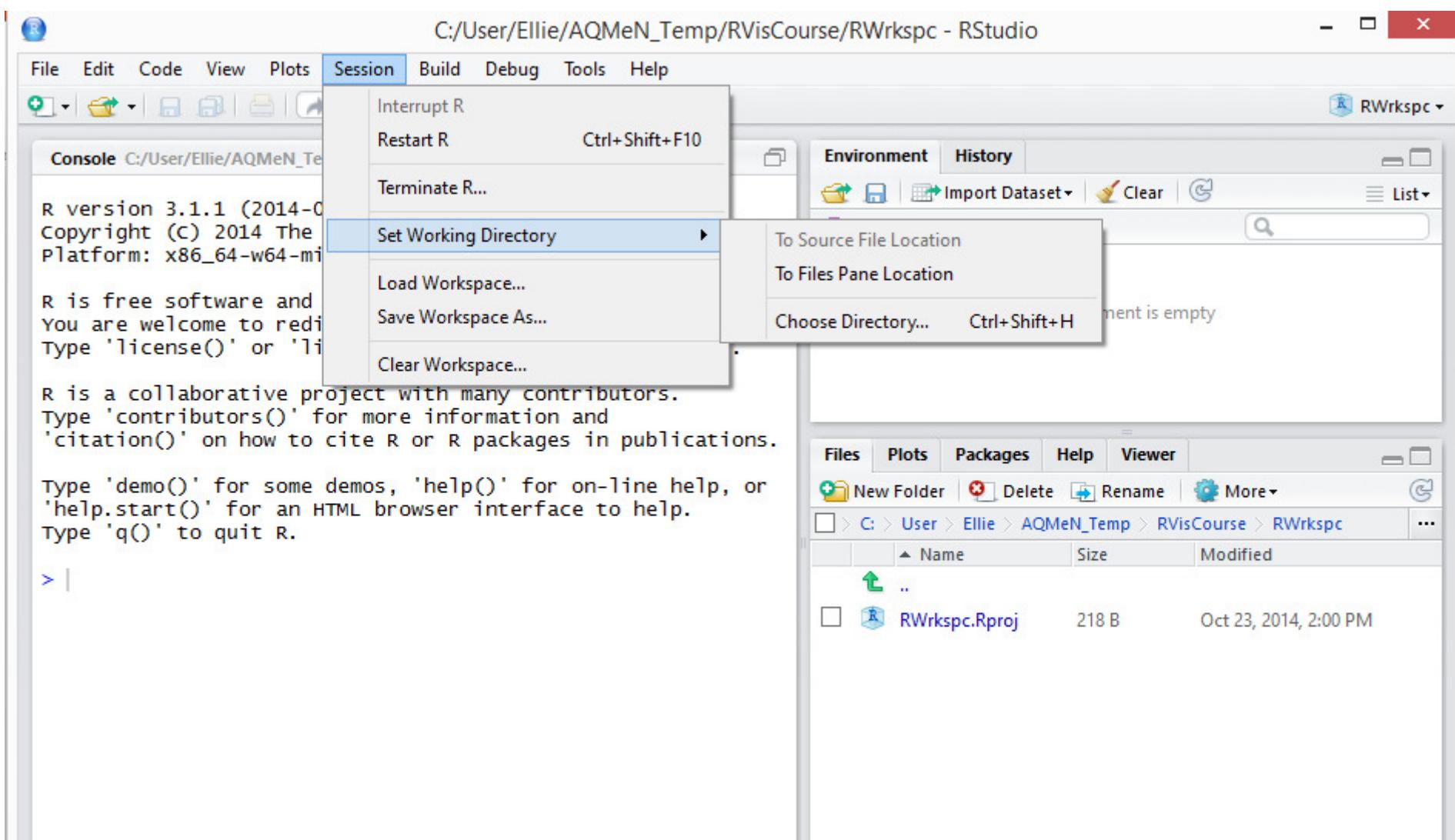
Files Plots Packages Help Viewer

New Folder Delete Rename More

C: > User > Ellie > AQMeN_Temp > RVisCourse > RWrkspc

	Name	Size	Modified
	RWrkspc.Rproj	218 B	Oct 23, 2014, 2:00 PM

Set the working directory



C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
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Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

```
> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
>
```

Environment History

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Delete Rename More

	Name	Size	Modified
..			
	apps		
	arcgis		
	DELL		
	Drivers		
	EsriPress		
	hiberfil.sys	0 B	Jan 1, 1970, 12:00 AM
	Intel		
	Masters		
	pagefile.sys	0 B	Jan 1, 1970, 12:00 AM
	PerfLogs		

Load some data

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Go to file/function RWrkspc

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
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'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
>
```

Environment History

Import Dataset Clear List

Global From Text File... From Web URL...

Environment is empty

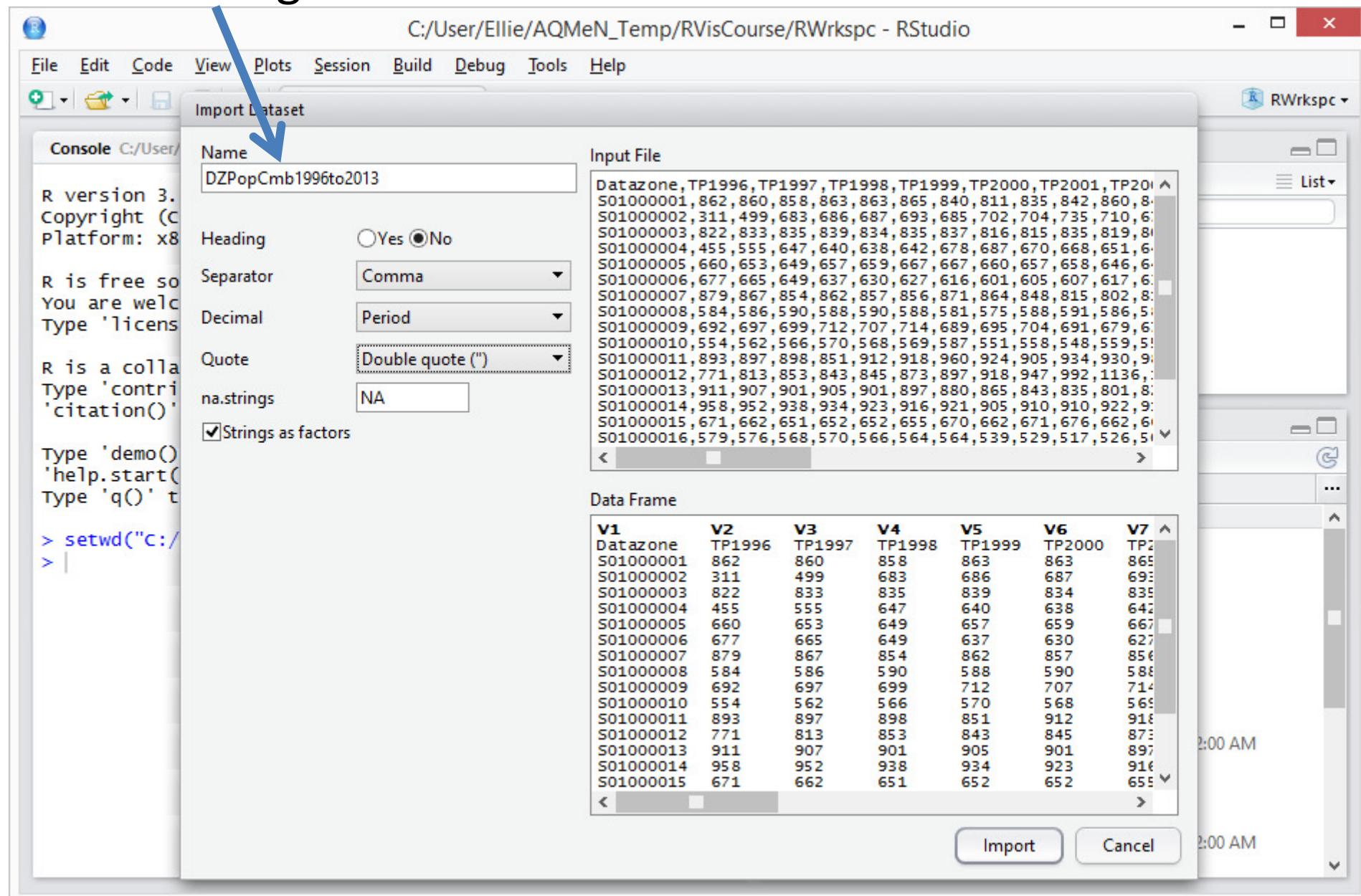
Files Plots Packages Help Viewer

New Folder Delete Rename More

C: Name Size Modified

	Name	Size	Modified
..			
	apps		
	arcgis		
	DELL		
	Drivers		
	EsriPress		
	hiberfil.sys	0 B	Jan 1, 1970, 12:00 AM
	Intel		
	Masters		
	pagefile.sys	0 B	Jan 1, 1970, 12:00 AM
	PerfLogs		

If you want you can change the name of the object you are reading the data into here in the Name box



C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Import Dataset

Console C:/User/

R version 3. Copyright (C) Platform: x86_64-w64-mingw32

R is free software. You are welcome to use it. Type 'license()' or 'citation()' for more information.

Type 'demo()' 'help.start()' or 'q()' to quit R.

> setwd("C:/")
> |

Name: DZPopCmb1996to2013

Heading: Yes

Separator: Comma

Decimal: Period

Quote: None

na.strings: NA

Strings as factors

Input File:

Datazone	TP1996	TP1997	TP1998	TP1999	TP2000
S01000001	862	860	858	863	865
S01000002	311	499	683	686	687
S01000003	822	833	835	839	834
S01000004	455	555	647	640	638
S01000005	660	653	649	657	667
S01000006	677	665	649	637	630
S01000007	879	867	854	862	857
S01000008	584	586	590	588	581
S01000009	692	697	699	712	707
S01000010	554	562	566	570	568
S01000011	893	897	898	851	912
S01000012	771	813	853	843	845
S01000013	911	907	901	905	901
S01000014	958	952	938	923	916
S01000015	671	662	651	652	652
S01000016	579	576	568	570	566

Data Frame:

Datazone	TP1996	TP1997	TP1998	TP1999	TP2000
S01000001	862	860	858	863	865
S01000002	311	499	683	686	687
S01000003	822	833	835	839	834
S01000004	455	555	647	640	638
S01000005	660	653	649	657	659
S01000006	677	665	649	637	630
S01000007	879	867	854	862	857
S01000008	584	586	590	588	590
S01000009	692	697	699	712	707
S01000010	554	562	566	570	568
S01000011	893	897	898	851	912
S01000012	771	813	853	843	845
S01000013	911	907	901	905	901
S01000014	958	952	938	923	923
S01000015	671	662	651	652	652
S01000016	579	576	568	570	566

Import Cancel

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

DZPopCmb1996to2013 * 6505 observations of 19 variables

	Datazone	TP1996	TP1997	TP1998	TP1999	TP2000	TP2001	TP2I
1	S01000001	862	860	858	863	863	865	840
2	S01000002	311	499	683	686	687	693	685
3	S01000003	822	833	835	839	834	835	837
4	S01000004	455	555	647	640	638	642	678
5	S01000005	660	653	649	657	659	667	667
6	S01000006	677	665	649	637	630	627	616
7	S01000007	879	867	854	862	857	856	871
8	S01000008	584	586	590	588	590	588	581
9	S01000009	692	697	699	712	707	714	689
10	S010000010	554	562	566	570	568	569	587

Displayed 1000 rows of 6505 (5505 omitted)

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
'citation()' on how to cite R or R packages in publications
.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
> DZPopCmb1996to2013 <- read.csv("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/Data/DZPopCmb1996to2013.csv", quote="")
> View(DZPopCmb1996to2013)
> |
```

Environment History

Import Dataset Clear List

Global Environment

Data DZPopCmb1996..6505 obs. of 19 variables

Files Plots Packages Help Viewer

New Folder Delete Rename More

Name Size Modified

- ..
- apps
- arcgis
- DELL
- Drivers
- EsriPress
- hiberfil.sys 0 B Jan 1, 1970, 12:00 AM
- Intel
- Masters
- pagefile.sys 0 B Jan 1, 1970, 12:00 AM
- DeflLog

Open a new blank
script file

Click the little green plus button

The screenshot shows the RStudio interface with several panes:

- File Bar:** Contains icons for File, View, Plots, Session, Build, Debug, Tools, and Help. A large blue arrow points to the "New File" icon (a green plus sign).
- Environment Tab:** Shows the Global Environment pane.
- Data Tab:** Shows the dataset `DZPopCmb1996to2013` with 6505 observations and 19 variables.
- Files Tab:** Shows a file browser for the C: drive root, displaying folders like `apps`, `arcgis`, `DELL`, etc., and system files like `hiberfil.sys` and `pagefile.sys`.
- Plots Tab:** Not visible in the screenshot.
- Packages Tab:** Not visible in the screenshot.
- Help Tab:** Not visible in the screenshot.
- Viewer Tab:** Not visible in the screenshot.
- Console:** Displays R session history, including:
 - 'citation()' on how to cite R or R packages in publications
 - Type 'demo()' for some demos, 'help()' for on-line help, or 'help.start()' for an HTML browser interface to help.
 - Type 'q()' to quit R.
 - Code for setting the working directory to `C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc`, reading the CSV file `DZPopCmb1996to2013`, and viewing it.
- Output:** Not visible in the screenshot.

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

R Script Ctrl+Shift+N
R Markdown...
Text File
C++ File
R Sweave
R HTML
R Presentation
R Documentation

6505 observations of 19 variables

	TP1997	TP1998	TP1999	TP2000	TP2001	TP2013
5	860	858	863	863	865	840
6	499	683	686	687	693	685
7	833	835	839	834	835	837
8	555	647	640	638	642	678
9	653	649	657	659	667	667
10	665	649	637	630	627	616
11	867	854	862	857	856	871
12	8	S01000008	584	586	590	588
13	9	S01000009	692	697	699	712
14	10	S01000010	554	562	566	570

Displayed 1000 rows of 6505 (5505 omitted)

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
'citation()' on how to cite R or R packages in publications
.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
> DZPopCmb1996to2013 <- read.csv("C:/User/Ellie/AQMeN_Temp/
RVisCourse/RWrkspc/Data/DZPopCmb1996to2013.csv", quote="")
> View(DZPopCmb1996to2013)
> |
```

Environment History

Import Dataset Clear List

Global Environment

Data DZPopCmb1996..6505 obs. of 19 variables

Files Plots Packages Help Viewer

New Folder Delete Rename More

C:

Name	Size	Modified
apps		
arcgis		
DELL		
Drivers		
EsriPress		
hiberfil.sys	0 B	Jan 1, 1970, 12:00 AM
Intel		
Masters		
pagefile.sys	0 B	Jan 1, 1970, 12:00 AM
PerfLogs		

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Untitled1 * Go to file/function RWrkspc

DZPopCmb1996to2013 * Untitled1 *

Source on Save Run Source

Environment History

Import Dataset Clear List

Global Environment

Data

DZPopCmb1996..6505 obs. of 19 variables

Files Plots Packages Help Viewer

New Folder Delete Rename More

C: Name Size Modified

..

Name	Size	Modified
apps		
arcgis		
DELL		
Drivers		
EsriPress		
hiberfil.sys	0 B	Jan 1, 1970, 12:00 AM
Intel		
Masters		
pagefile.sys	0 B	Jan 1, 1970, 12:00 AM
PerfLogs		

1:1 (Top Level) R Script

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
'citation()' on how to cite R or R packages in publications
.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
> DZPopCmb1996to2013 <- read.csv("C:/User/Ellie/AQMeN_Temp/
RVisCourse/RWrkspc/Data/DZPopCmb1996to2013.csv", quote="")
> View(DZPopCmb1996to2013)
> |
```

Copying existing code to
Script window to keep for
later

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Untitled1 * Go to file/function RWrkspc

DZPopCmb1996to2013 * Untitled1 *

Source on Save Run Source

Environment History

Import Dataset Clear List

Global Environment

Data

DZPopCmb1996..6505 obs. of 19 variables

Files Plots Packages Help Viewer

New Folder Delete Rename More

C:

	Name	Size	Modified
..			
	apps		
	arcgis		
	DELL		
	Drivers		
	EsriPress		
	hiberfil.sys	0 B	Jan 1, 1970, 12:00 AM
	Intel		
	Masters		
	pagefile.sys	0 B	Jan 1, 1970, 12:00 AM
	PerfLogs		

1:1 (Top Level) R Script

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
'citation()' on how to cite R or R packages in publications ^  
.  
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

```
> setwd("c:/user/Ellie/AQMeN_Temp/Rviscourse/Rwrkspc")  
> DZPopCmb1996to2013 <- read.csv("C:/user/Ellie/AQMeN_Temp/  
RVisCourse/RWrkspc/Data/DZPopCmb1996to2013.csv", quote="")  
> view(DZPopCmb1996to2013)  
>
```

The screenshot shows the RStudio interface with the 'Console' tab selected. The path 'C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/' is displayed at the top. The console output includes:

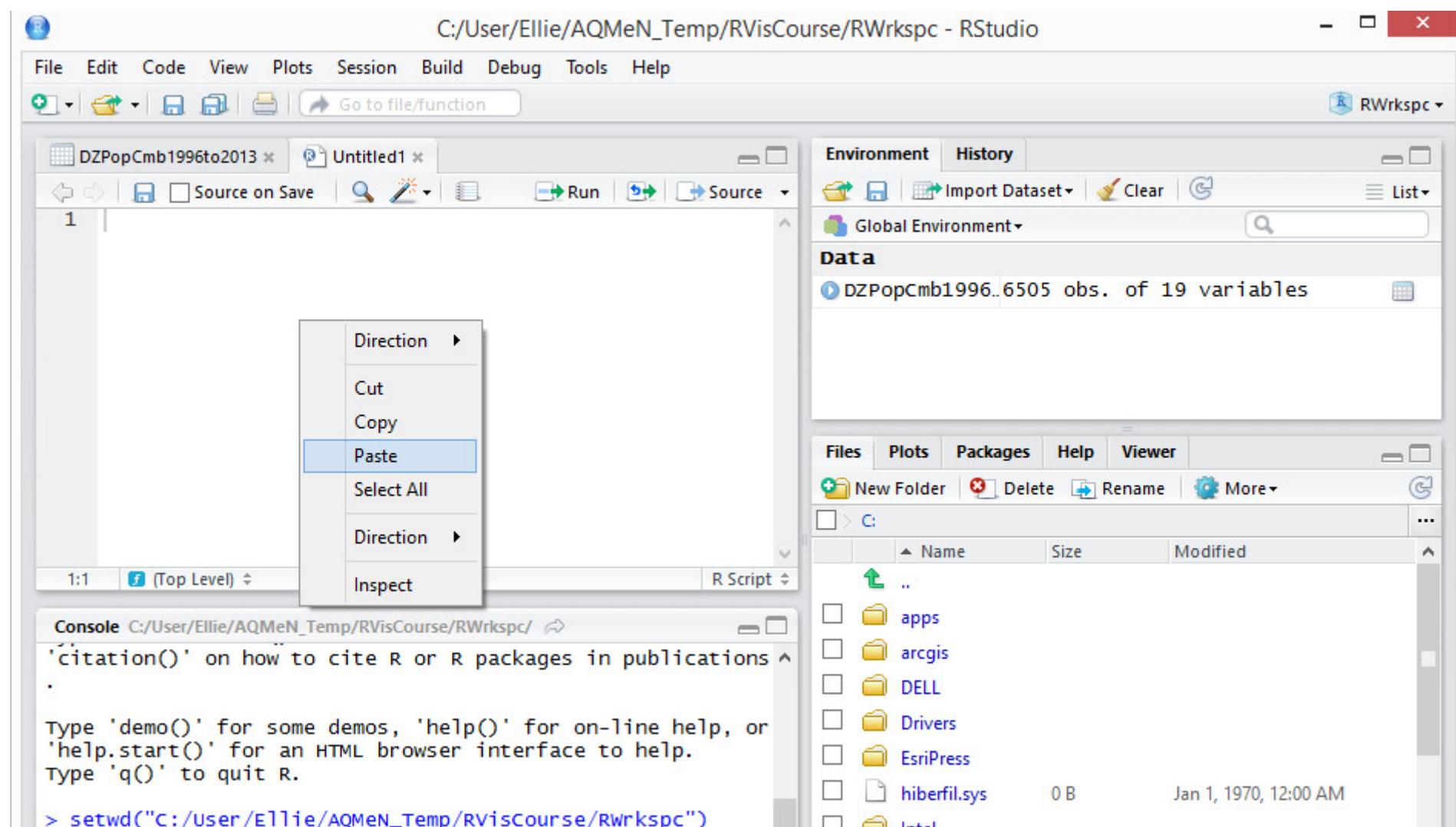
```
'citation()' on how to cite R or R packages in publications
.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
> DZPopCmb1996t
```

A context menu is open over the line 'DZPopCmb1996t'. The menu items are 'Copy' and 'Inspect'. The 'Copy' item is highlighted with a yellow background.

16

Copy existing code to
Script window to keep for



You need to delete the > at the start of the code before you use it / save it

You can expand windows

The screenshot shows the RStudio interface with three main panes:

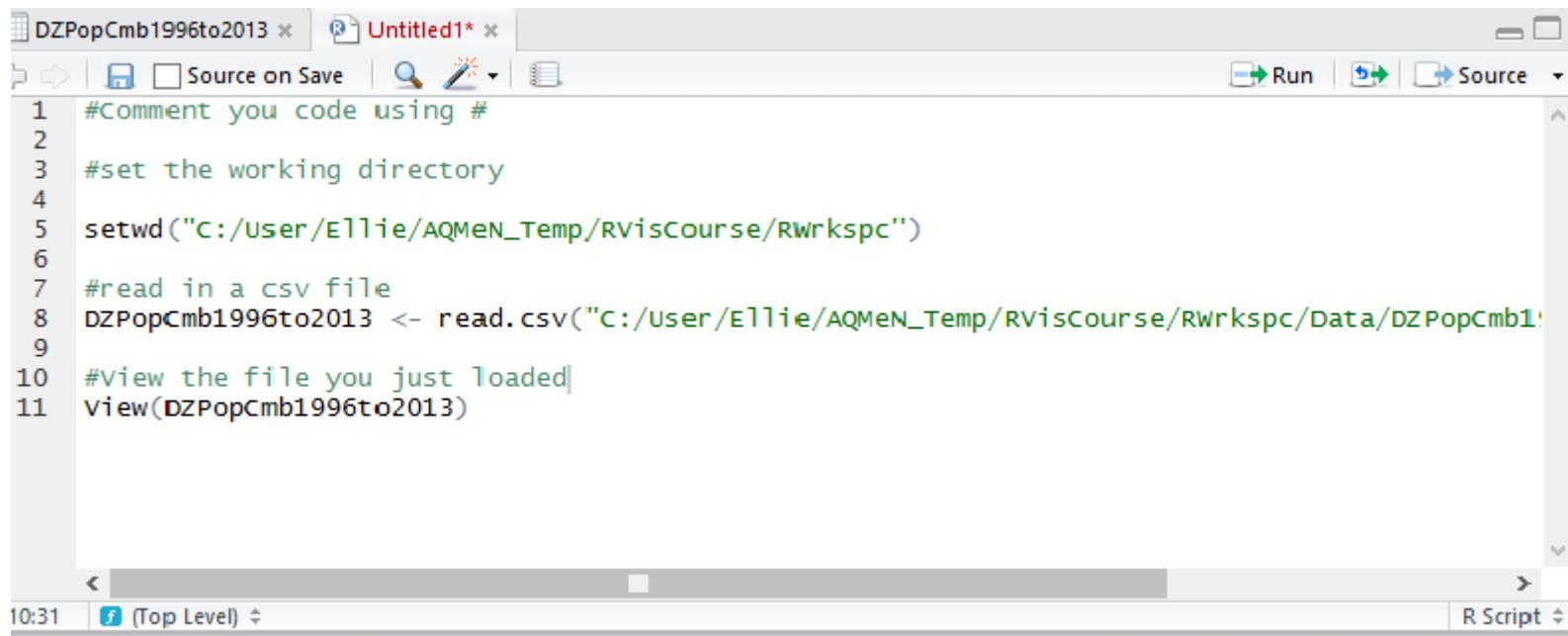
- Script Editor (Top Left):** Displays R code in a script named "Untitled1". The code includes three lines starting with '>':

```
> setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc")
> DZPopCmb1996to2013 <- read.csv("C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/Data/DZPopCmb1996to2013.csv", quote="")
> View(DZPopCmb1996to2013)
```

A blue arrow points from the text "You need to delete the > at the start of the code before you use it / save it" to the first line of code in the editor.
- Console (Bottom Left):** Shows the R environment and introductory messages.
- File Browser (Bottom Right):** Shows the contents of the "C:" drive, including folders like "apps", "arcgis", "DELL", etc., and system files like "hiberfil.sys" and "pagefile.sys".

Comment code

Comment your code with # at the start

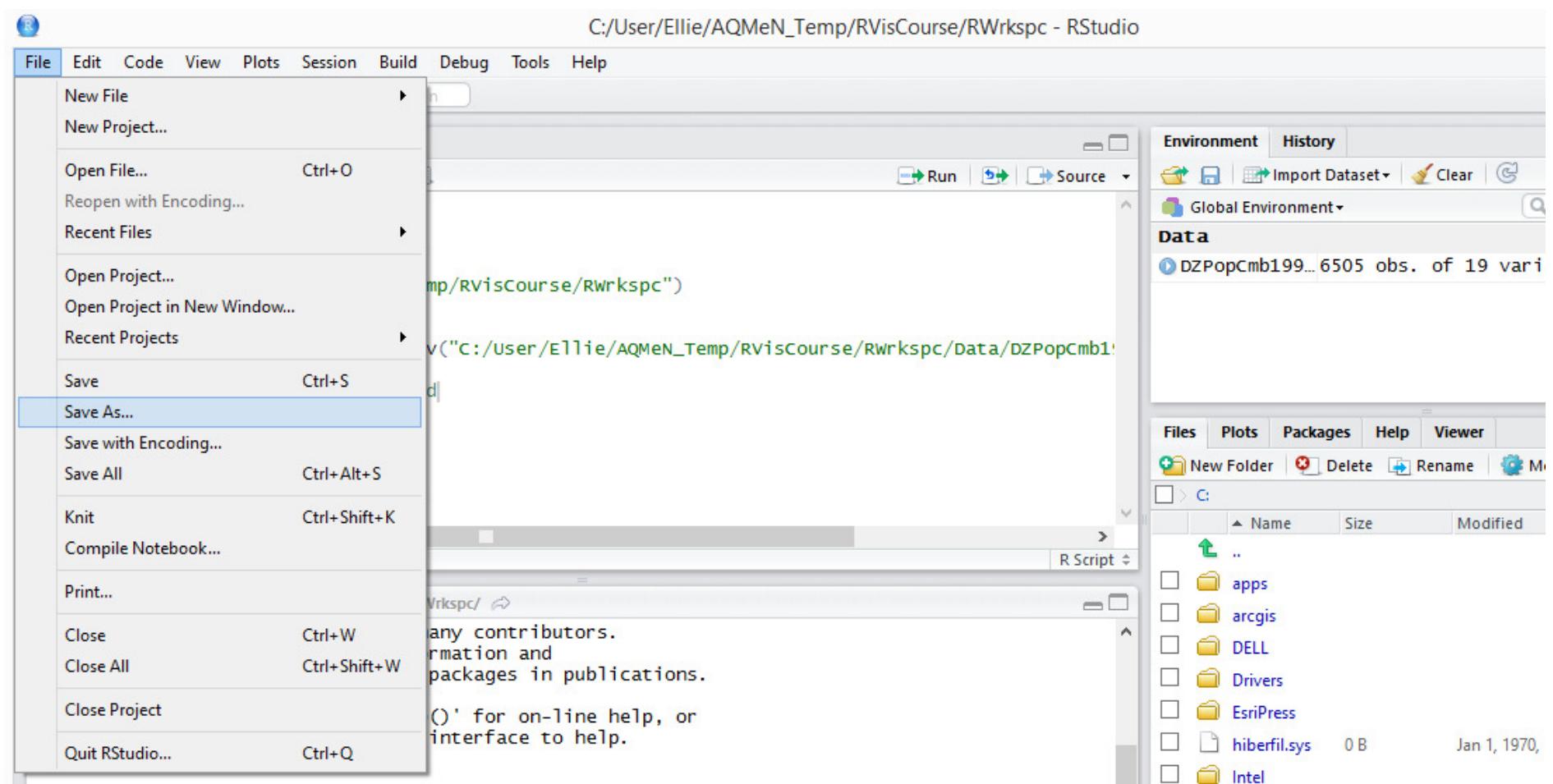


The screenshot shows the RStudio interface with an R script editor window. The window title is "Untitled1*". The code in the editor is as follows:

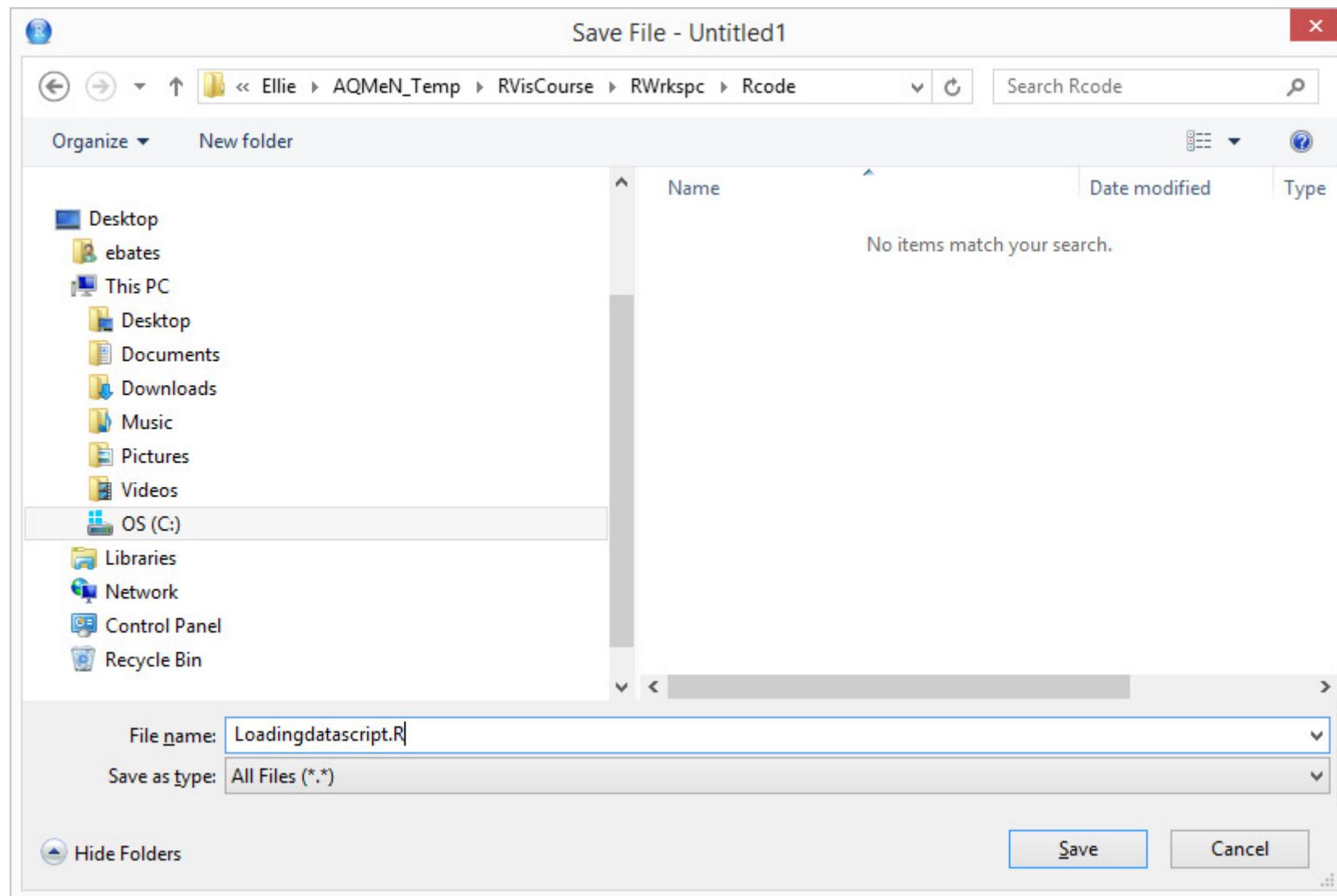
```
1 #Comment you code using #
2
3 #set the working directory
4
5 setwd("C:/User/Ellie/AQMeN_Temp/RVisCourse/Rwrkspc")
6
7 #read in a csv file
8 DZPopCmb1996to2013 <- read.csv("C:/User/Ellie/AQMeN_Temp/RVisCourse/Rwrkspc/Data/DZPopCmb1"
9
10 #view the file you just loaded
11 View(DZPopCmb1996to2013)
```

The status bar at the bottom left shows the time as 10:31 and the status as "(Top Level)". The status bar at the bottom right shows "R Script".

Save script for loading your
data

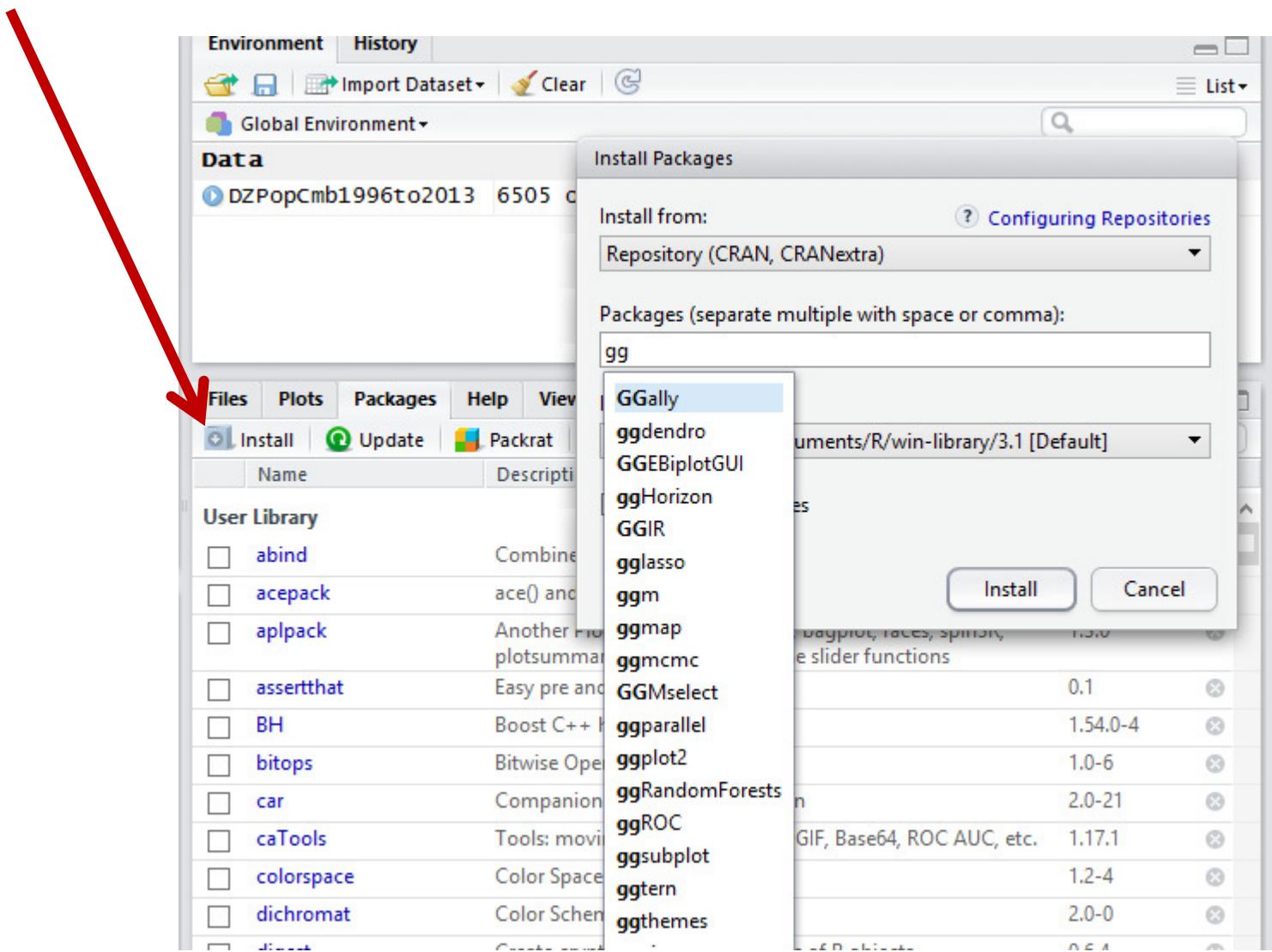


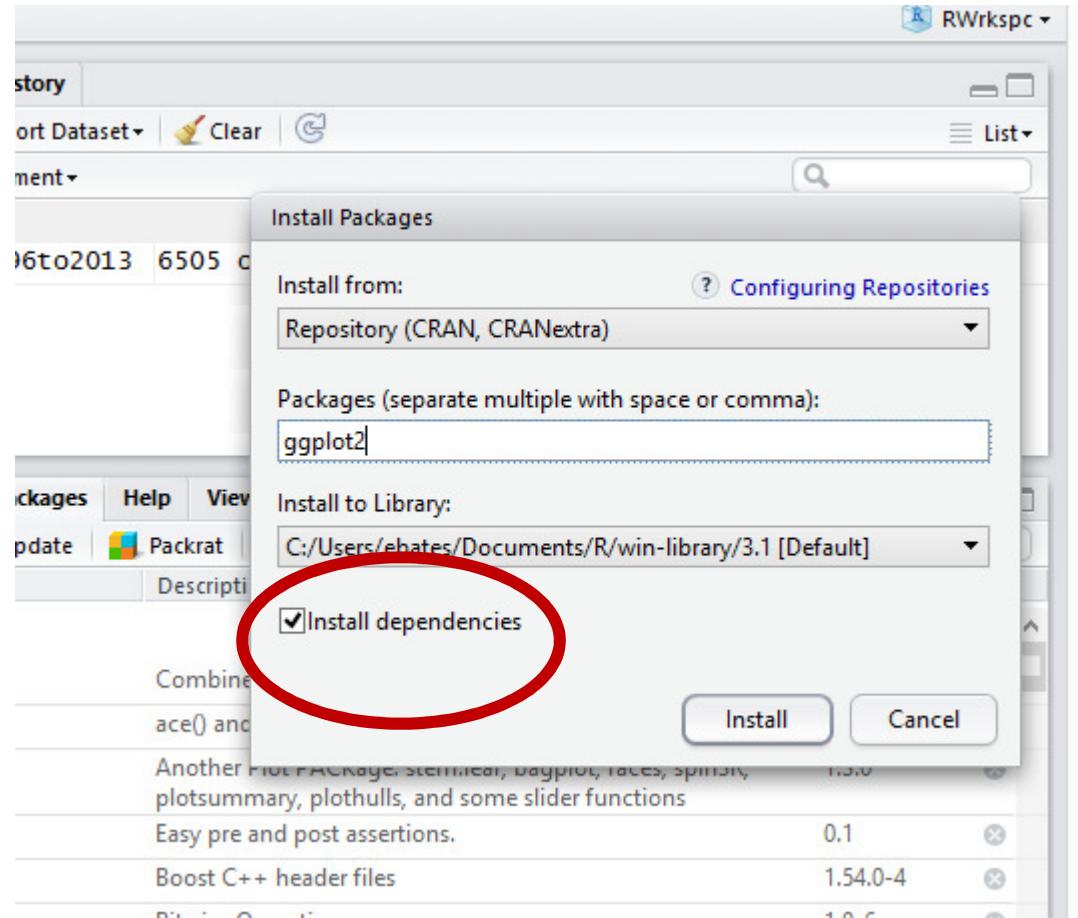
Give you R script the file extension .R



Installing your package

Click on the Packages tab and click the install button – the Install Packages window appears





Make sure Install
dependencies is ticked and click install

The code to install packages

```
Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/ ~
se/RWrkspc/Data/DZPopCmb1996to2013.csv', quote='')
> view(DZPopCmb1996to2013)
> install.packages("ggplot2")
Installing package into 'c:/users/ebates/Documents/R/win-library/3.
1'
(as 'lib' is unspecified)
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.1/ggplot2
_1.0.0.zip'
Content type 'application/zip' length 2673292 bytes (2.5 Mb)
opened URL
downloaded 2.5 Mb

package 'ggplot2' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\users\ebates\AppData\Local\Temp\RtmpsTnhPA\downloaded_packages
> |
```

Messages from R as it is downloading the package (in red)

Messages saying package is downloaded (in black)

Load your package

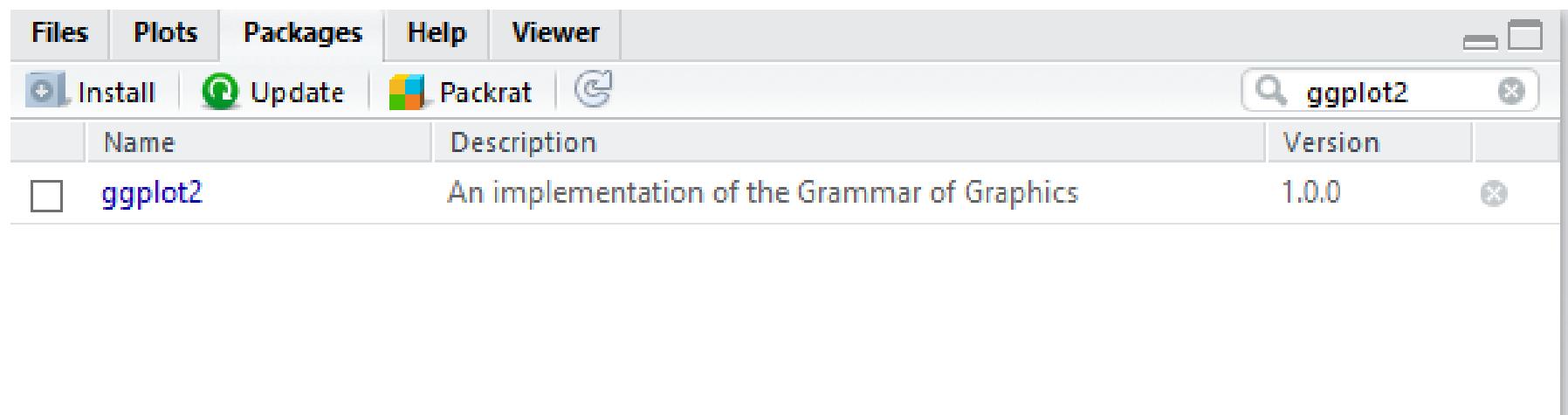
You can use
require()

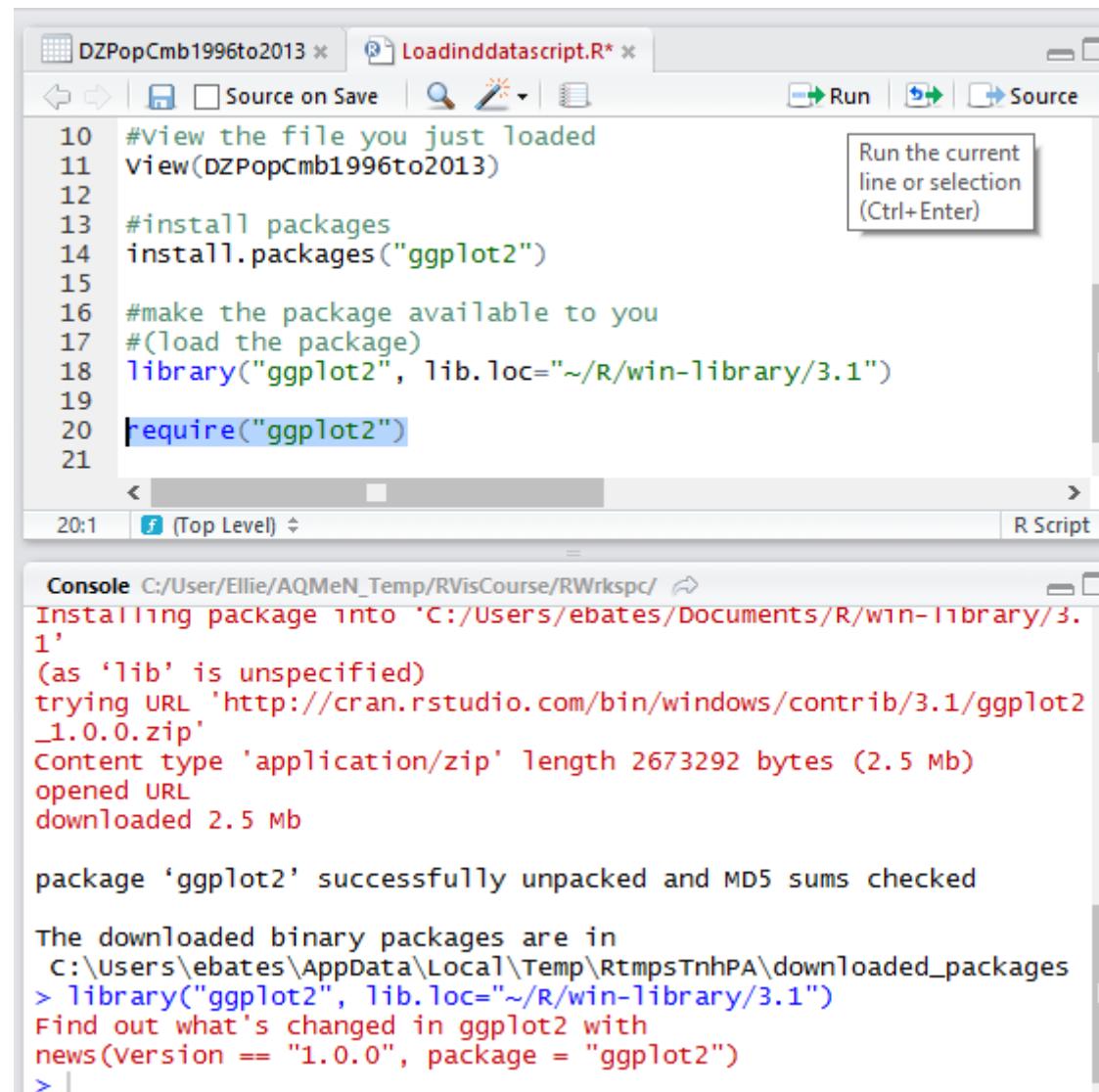
Or

library()

Or R Studio GUI

In the packages tab type the name of library you want.
Tick the package





A screenshot of the RStudio interface. The top panel shows two tabs: "DZPopCmb1996to2013" and "Loadinddatascript.R*". Below the tabs is a toolbar with icons for back, forward, source save, search, and run. A tooltip for the "Run" icon is displayed, stating "Run the current line or selection (Ctrl+Enter)". The main code editor area contains the following R script:

```
10 #view the file you just loaded
11 View(DZPopCmb1996to2013)
12
13 #install packages
14 install.packages("ggplot2")
15
16 #make the package available to you
17 #(load the package)
18 library("ggplot2", lib.loc="~/R/win-library/3.1")
19
20 #require("ggplot2")
21
```

The bottom panel is the R Console, showing the output of the script. It starts with the command "library('ggplot2')", followed by the message "Installing package into 'C:/Users/ebates/Documents/R/win-library/3.1'" and the download process for the "ggplot2_1.0.0.zip" file. After the file is downloaded and unpacked, it shows the message "package 'ggplot2' successfully unpacked and MD5 sums checked". Finally, it lists the path where the package was downloaded and provides instructions to find changes in the package.

```
Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/
Installing package into 'C:/Users/ebates/Documents/R/win-library/3.1'
(as 'lib' is unspecified)
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.1/ggplot2_1.0.0.zip'
Content type 'application/zip' length 2673292 bytes (2.5 Mb)
opened URL
downloaded 2.5 Mb

package 'ggplot2' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
C:\users\ebates\AppData\Local\Temp\RtmpsTnhPA\downloaded_packages
> library("ggplot2", lib.loc="~/R/win-library/3.1")
Find out what's changed in ggplot2 with
news(version == "1.0.0", package = "ggplot2")
> |
```

C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc - RStudio

File Edit Code View Plots Session Build Debug Tools Help

Go to file/function

RWrkspc

DZPopCmb1996to2013 x Loadindddatascript.R*

Source on Save Run Source

```
10 #view the file you just loaded
11 View(DZPopcmb1996to2013)
12 |
13 #install packages
14 install.packages("ggplot2")
15
16 #make the package available to you
17 #(load the package)
18 library("ggplot2", lib.loc="~/R/win-library/3.1")
19
20 require("ggplot2")
21
```

12:1 (Top Level) R Script

Console C:/User/Ellie/AQMeN_Temp/RVisCourse/RWrkspc/

```
1'
(as 'lib' is unspecified)
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.1/ggplot2_
_1.0.0.zip'
Content type 'application/zip' length 2673292 bytes (2.5 Mb)
opened URL
downloaded 2.5 mb

package 'ggplot2' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:/users/ebates/AppData/Local/Temp/RtmpsTnhPA/downloaded_packages
> library("ggplot2", lib.loc="~/R/win-library/3.1")
Find out what's changed in ggplot2 with
news(version == "1.0.0", package = "ggplot2")
> require("ggplot2")
> |
```

Environment History

Import Dataset Clear

Global Environment

Data DZPopCmb1996to2013 6505 obs. of 19 variables

Files Plots Packages Help Viewer

Install Update Packrat

Name	Description	Version
ggplot2	An implementation of the Grammar of Graphics	1.0.0

Troubleshooting and finding
out more about packages

ggplot2 - Google Search - Mozilla Firefox

https://www.google.co.uk/search?q=ggplot2&sa=G&gbv=2&sei=sf5IVNOHJbSp7Abp0oGgCg

g Google

ggplot2

Web Images Videos Books Shopping More ▾ Search tools

About 405,000 results (0.10 seconds)

Cookies help us deliver our services. By using our services, you agree to our use of cookies.
Learn more Got it

ggplot2
ggplot2.org/ ▾
ggplot2. ggplot2 is a plotting system for R, based on the grammar of graphics, which tries to take the good parts of base and lattice graphics and none of the bad ...

Index. ggplot2 0.9.3.1
docs.ggplot2.org/ ▾
Help topics. Geoms. Geoms, short for geometric objects, describe the type of plot you will produce. geom_abline. Line specified by slope and intercept.
Geom_bar - Geom_point - Geom_line - Geom_abline

CRAN - Package ggplot2
cran.r-project.org/package=ggplot2 ▾
21 May 2014 - ggplot2: An implementation of the Grammar of Graphics ... See the ggplot2 website for more information, documentation and examples.
Version: 1.0.0 Depends: R (>= 2.14), stats, methods

[PDF] Package 'ggplot2' - R project
cran.r-project.org/web/packages/ggplot2/ggplot2.pdf



CRAN - Package ggplot2 - Mozilla Firefox

cran.r-project.org/web/packages/ggplot2/index.html

ggplot2: An implementation of the Grammar of Graphics

An implementation of the grammar of graphics in R. It combines the advantages of both base and lattice graphics: conditioning and shared axes are handled automatically, and you can still build up a plot step by step from multiple data sources. It also implements a sophisticated multidimensional conditioning system and a consistent interface to map data to aesthetic attributes. See the ggplot2 website for more information, documentation and examples.

Version: 1.0.0

Depends: R (≥ 2.14), stats, methods

Imports: [plyr](#) (≥ 1.7.1), [digest](#), [grid](#), [gttable](#) (≥ 0.1.1), [reshape2](#), [scales](#) (≥ 0.2.3), [proto](#), [MASS](#)

Suggests: [quantreg](#), [Hmisc](#), [mapproj](#), [maps](#), [hexbin](#), [maptools](#), [multcomp](#), [nlme](#), [testthat](#), [knitr](#), [mgcv](#)

Enhances: [sp](#)

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BugReports: <https://github.com/hadley/ggplot2/issues>

License: [GPL-2](#)

URL: <http://ggplot2.org>, <https://github.com/hadley/ggplot2>

NeedsCompilation: no

Citation: [ggplot2 citation info](#)

Materials: [README](#) [NEWS](#)

In views: [Graphics](#)

CRAN checks: [ggplot2 results](#)

Downloads:

Reference manual: [ggplot2.pdf](#)

Vignettes: [Contributing to ggplot2 development](#)
[ggplot2 release process](#)

Package source: [ggplot2_1.0.0.tar.gz](#)

Windows binaries: r-devel: [ggplot2_1.0.0.zip](#), r-release: [ggplot2_1.0.0.zip](#), r-oldrel: [ggplot2_1.0.0.zip](#)

OS X Snow Leopard binaries: r-release: [ggplot2_1.0.0.tgz](#), r-oldrel: [ggplot2_1.0.0.tgz](#)