

Stat 411/511

WELCOME

Jan 9th 2012

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Hello, my name is

Charlotte

I'm an Assistant Professor in
the Statistics Department

I'm from New Zealand

I have a cat named Dexter



Your turn

Introduce yourself to your neighbour

Why are you taking ST411/511?

Two important people who aren't here:
Matthew (8am & noon) & Jessica (2pm)

stat511.cwick.co.nz

Assessment

	ST411	ST511
Homework	40%	30%
Midterm	30%	30%
Final	30%	30%
Project		10%

Homework 0

Create 3x5 inch flashcard

Front A photo of you (that I can identify you from)

Back Your name and five interesting facts about yourself.

Due in class Friday (13th 2012)

Labs

Lead by the TAs

Learn and practice R

Hand in homework

Also

- great place to start homework
- form study groups
- ask questions

Start this Friday!

Questions on syllabus?

Why R?

Language of statisticians

Code is a form of communication

It's easy to extend

It's free

You'll be in good company



Read more: <http://www.nytimes.com/2009/01/07/technology/business-computing/07program.html?pagewanted=all>

We'll be using R

- As a calculator
- To look up areas under curves
- To make plots
- To run statistical tests

Why RStudio?

Nicely integrates R and an editor

It's exactly the same on all platforms
(Mac, Windows, Linux)

You don't have to install anything!

<http://rstudio.scf.oregonstate.edu>

Your ONID
username and
password



Sign in to RStudio

Username:
ONIDusername

Password:
[Redacted]

Stay signed in

Sign In

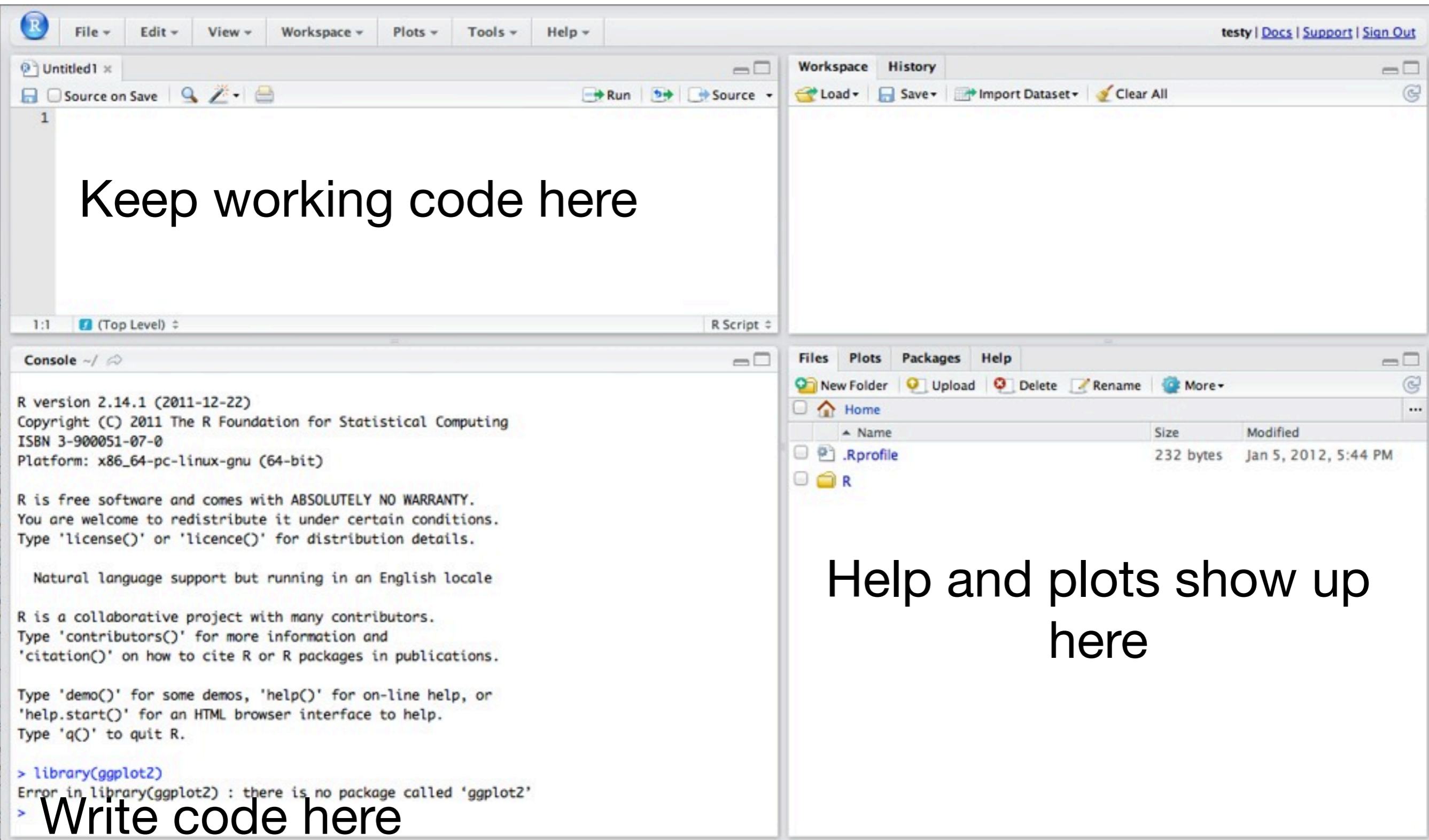
If you aren't registered yet or registered since Friday morning, email me and I'll add you.

File -> New R Script

The screenshot displays the RStudio environment. The top menu bar includes File, Edit, View, Workspace, Plots, Tools, and Help. The top right corner shows the user 'testy' and links for Docs, Support, and Sign Out.

The left panel is the Console, showing the R version 2.14.1 (2011-12-22) and copyright information. The right panel is the Workspace, which is currently empty. Below the Workspace is the Files panel, showing a file browser view with a table of files:

	Name	Size	Modified
<input type="checkbox"/>	Home		
<input type="checkbox"/>	.Rprofile	232 bytes	Jan 5, 2012, 5:44 PM
<input type="checkbox"/>	R		



When you are done...

You have two options:

1. File -> Quit R, or in the console: `q()` (recommended)

Quits and clears workspace

2. Sign Out

Quits but keeps everything the way you left it. Useful if you didn't quite finish lab or class example.

This week

Wednesday: R bootcamp

Friday: More R and an introduction
to statistical inference

Your turn

When you get home, log on to RStudio

In the console:

```
install.packages(c("Sleuth2", "ggplot2"))  
# you might be asked to choose a mirror, pick 5  
library(Sleuth2)  
library(ggplot2)  
qplot(Sex, Salary, data = case0102, geom = "boxplot")
```

you should see something similar to Display 1.12
in Sleuth

```
q()
```

Bring a laptop next time if you can!