

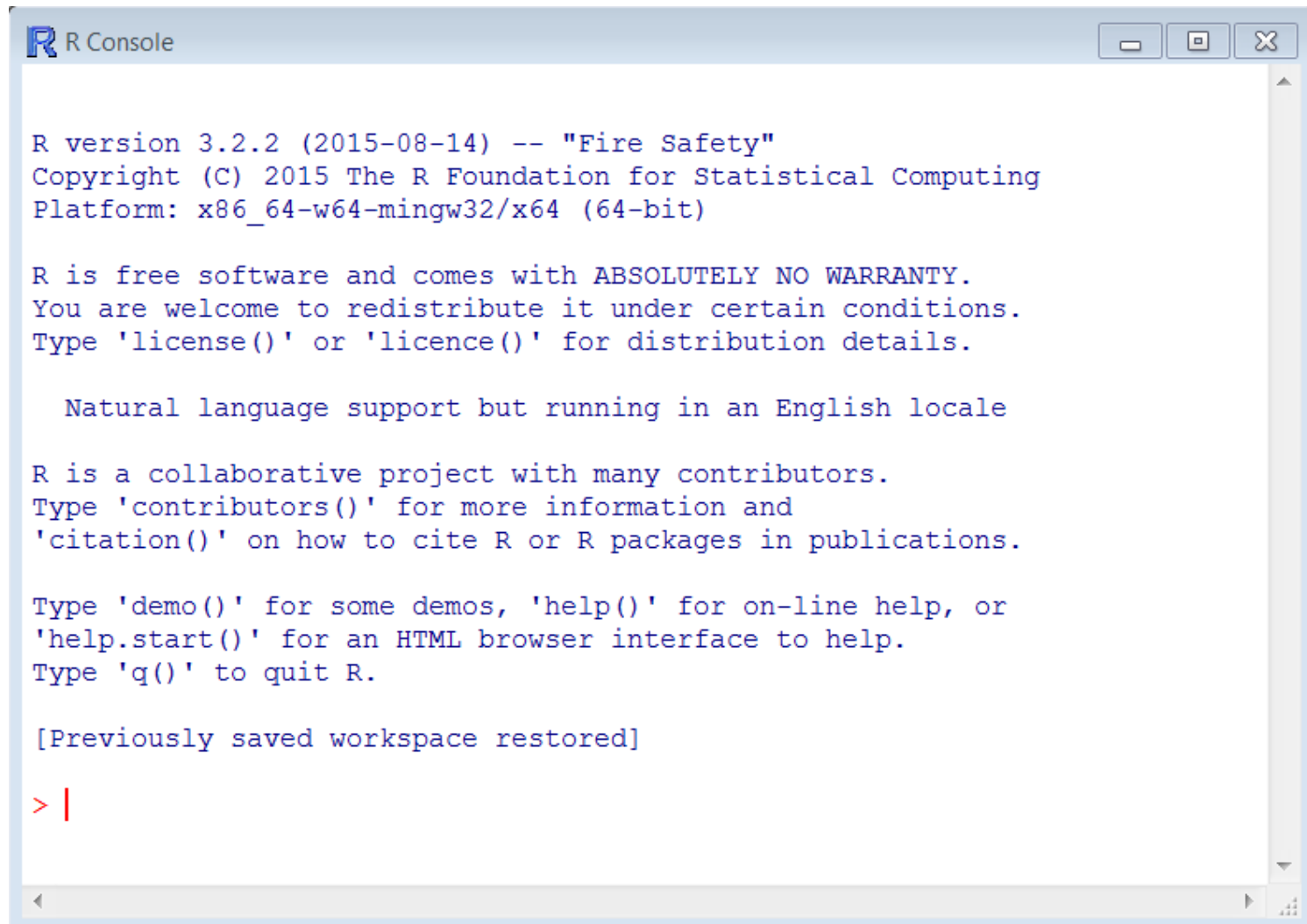
R Overview

Introduction

- **R** is an “**object-oriented**” software language derived from **S**
- **S** is a prior object-oriented software language developed by John Chambers at Bell Laboratories (now Lucent Technologies)
- **R** is a somewhat different “**open source**” implementation of S, optimized for matrix manipulation, statistics and graphics
- It is available **free** of charge from: <https://www.r-project.org/>
- Chose a **CRAN mirror** site close to your city
- **CRAN** → Comprehensive R Archive Network → Full of R resources
- The **name** R comes from their two developers’ names: Ross Ihaka and Robert Gentleman from the U of Auckland, New Zealand
- R’s popularity comes from literally thousands of public libraries, called “**packages**” with any statistical and graphic routine you could possibly need
- **How much R** to learn? It is totally up to you. You can run powerful modeling commands with very simple instructions or you can program your own complex packages
- R has its own **search engine** to find anything you need about R (bookmark this site, your best R friend): <http://rseek.org/>



The R Console

A screenshot of the R Console window. The window has a title bar that says "R Console" with a small R logo on the left and standard minimize, maximize, and close buttons on the right. The main area of the window contains the following text in a monospaced font:

```
R version 3.2.2 (2015-08-14) -- "Fire Safety"
Copyright (C) 2015 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.

    Natural language support but running in an English locale

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.

[Previously saved workspace restored]

> |
```

The text is displayed in a dark blue or black font on a light background. At the bottom, there is a red prompt character ">" followed by a vertical cursor bar. The window also features a vertical scrollbar on the right side and a horizontal scrollbar at the bottom.



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