

Getting the Most Out of RStudio™

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1. RStudio

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Abstract:

RStudio is a free and open source integrated development environment (IDE) for the *R* programming language. RStudio aims to combine the various components of *R* (console, source, editing, graphics, history, help, etc.) into one seamless and productive workbench. RStudio also makes it easier to separate your workflow into projects and utilize other powerful tools such as version control. It is designed to both ease the learning curve for new *R* users as well as provide high productivity tools for more advanced users. Additionally, RStudio can be deployed as a server to enable web access to *R* sessions running on remote systems. With all of these powerful tools, it is important to know how to use them efficiently to maximize productivity.

For useR! 2012, we would like to give a full tutorial on getting the most out of RStudio. We will provide a full overview of the IDE, as well as instruction on setting up and using more advanced features such as the **manipulate** package, version control, and RStudio Server. Below is an outline of the proposed session:

Outline:

- Introduction
- RStudio Basics
- Full Feature Overview
- Productivity Techniques
- **manipulate** Package
- Integrated Version Control with Git and Subversion
- Setting up RStudio Server

Prerequisites: Attendees should have a basic working knowledge of *R*. Bring a laptop, preferably with *R* and the latest version of RStudio installed. RStudio binaries are available for Windows, Mac, and Linux on the RStudio website.

Intended Audience: New and advanced *R* users. The focus of this tutorial will be how RStudio can enhance your workflow and productivity while using *R*.

References:

[1] RStudio, Inc. (2012). RStudio home page, <http://www.rstudio.org/>.