

# Working in RStudio

**Data Science for Quality Management:  
Data and Measurement**

with **Wendy Martin**

## **Learning objectives:**

Create and import a data file into RStudio

Access R packages

Work with data frames

# Introduction to R and RStudio

- R is the programming language
- RStudio is the user interface

# Step 1: Install R

- Download R at <http://www.r-project.org>
- Once downloaded, double click to install R

## Step 2: Install RStudio

- Download RStudio at <http://www.rstudio.com>
- Once downloaded, double click to install RStudio

## **Step 3: Open RStudio**

## Step 4: Install lolcat

```
install.packages("devtools")  
require(devtools)  
install_github("burrm/lolcat")
```

# Packages

Once you have installed a package, it needs to be loaded any time you open RStudio

- `require( )`
- `library( )`



# R Syntax

- Case sensitive
- Assignment operator: <-

# Import Data into RStudio

# Import Data into RStudio

The datasets we will be using in our course will be imported as a dataframe, with different variable names.

To select a variable: `Dataframe$variable`