



MES: Quantitative and Qualitative Methods

R Intro (Tuesday)

What is R?

Why are we using it?

How do you get it?

How will you learn it?

A Quick Demo....

Lab Preview....



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R Intro (Recap of Tuesday)

R Learning Objectives for Week 1

1. Concepts:
2. Abilities:
3. Skills:



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R Intro (Recap of Tuesday)

R Learning Objectives for Week 1 - Skills:

1. Invoke/Install R, commands on the nav bar, activate a window, enter expressions and commands, examine result, Save/retrieve [R-console] history and workspace
2. Data input: navigate directory structure, variable assignment, reading a file
3. R Data types: number, string,
4. R Data Structures (create, view, manipulate):
 1. vector, matrix, factor (levels), data frames, tables
 2. Operations (functions)



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R Intro (Recap of Tuesday)

R Learning Objectives for Week 1 - Abilities:

1. manage data among different file types, data structures.
2. Decide which file type, data type, data structure to use.



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R Learning Objectives for Week 1 - Concepts:

- 1.expressions,
- 2.data type (numeric, string, categorical, boolean),
- 3.variable,
- 4.data structure (vector, array, matrix),
- 5.workspace,
- 6.file types (CSV, txt, xls),
- 7.functions (parameters, side effects),
- 8.reserved word



MES: Quantitative and Qualitative Methods **R Intro (New Thursday)**

R Learning Objectives for Week 1

Concept: Library

Ability: How and when to use a Library

Skills:

1. Plotting
2. Installing and loading the ISwR library package
 1. From the Nav Bar
 1. Packages->install Package(s)
 2. Packages->load Package(s)
 2. Check if the package is installed

So, once again, why are we using R?



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Other 'lab' objectives for today:

1. Organize into pairs for labs
2. Set up Help sessions (Fri, Mon – where?)
3. Peruse HJA web site for topic area, then
4. Sign up on field trip form with interest area(s)