Intro to R Presentation structure notes

* Aims of the presentation
  + Contextualize R
  + Quick-start on IDEs and scripts
  + Platter of topics and where to go for more info
* Contextualizing R as a language
  + Brief history
  + Pros/cons and alternatives
  + R and data science
* How to use R in the most general sense
  + Downloading R and RStudio
  + Familiarization with RStudio layout
  + Creating scripts and RMarkdown documents
    - RMarkdown lets you mix code and text
* R Syntax and Writing Code
  + Object creation and assignment
    - Need to understand the concept of an “object”
      * An object can be literally anything, and the user is capable of creating their own objects
    - Naming conventions
      * Reserved namespaces
      * Case sensitive
  + Object classes
    - Fundamental types
      * (use existing slides for this really)
    - Matrices, data frames, lists
  + Functions
    - Existing functions and downloadable
      * CRAN, GitHub repos
    - User-created functions
  + Infix operators
    - “R comes with lots of functions, and you can download lots. I encourage you to explore the pre-built functions on your own. I want to talk about a special group of functions though.”
    - Still functions, but they get their own special place in R syntax
    - Mathematical operators and logical operators
      * Logical results and Booleans