1 **Introduction to R**

* 1. IDE Setup
  2. Vectors
  3. Lists
  4. Factors
  5. Data frames
  6. Tibbles

1. **Common**
   1. v() and sort()
   2. labels()
   3. %p%
   4. %eq%
   5. Sys.path(), file.find(), dir.find()
   6. subsc, supsc, symbol
   7. find.names(), copy.attributes()
2. **Logr**
   1. Logr basics
   2. Aliases
   3. Message Files
   4. Autolog
   5. Global Options
3. **fmtr**
   1. Numeric formats
   2. Date formats
   3. User Defined format
   4. Vector Lookup
   5. Vectorized function
   6. FData
   7. Format Catalog
   8. Formatting List
   9. Helper Functions
   10. Convenience Functions
4. **libr** 
   1. libname
   2. Library operations
   3. Dictionary
   4. Datastep basics
   5. Drop, Keep and Rename
   6. Retain
   7. Labels and Formats
   8. Attributes
   9. By groups
   10. Automatic variables
   11. Merge and Set Operations
5. **Reporter**
   1. Basic Table
   2. Titles
   3. Footnotes
   4. Page Header and Footers
   5. Text
   6. Figure Basics
   7. Combinations
   8. Output types
   9. Define Function
   10. Show\_cols
   11. Spanning Cols
   12. Column\_defaults
   13. Superscripts, Subscripts, and Symbols
6. **Procs Package**
   1. Intro to procs
   2. Proc freq
   3. Proc means
   4. Proc print
   5. Proc transpose
   6. Proc sort
7. **R-Sassy**
   1. Listing
   2. Demog
   3. AE
   4. Patient Profile 1
   5. Patient Profile 2
8. **Other- General**
   1. DefineR