R –

**Need to install rstudio**

**Read Landers book**

**Rpubs.com…**

**“Site:rpubs.com penguins”**

**-can create nice rpubs.com resume/profile**

1. Looking at programming language rankings graph,
   1. R is important etc
2. R in the data science workflow
   1. Obtain
   2. Scrub
   3. Explore
   4. Model
   5. Interpret
      1. R is used in all steps
3. Learning basic idiom of language
4. Highly regarded for graphics ability
5. Hands on R and RStudio
   1. Data stuctures
   2. Data types

Df <- read.csv(“c:/users/Public/test.csv”, header=FALSE)

View(df)

Str(read.csv)

def<- Read.csv(“c:/Users/Public/dfw.csv”, header=FALSE, stringsAsFactors=False)

#adds header

colnames(test) <-c(“year”, “Month”, “Carrier”, “Origin”)

#r programers use “<-“ or “gets” instead of “=”

#How to look at data frame:

Summary(df)

#can search with in google: “Site: stackoverflow how to add head to a dataset in r”

**Data types:**

-integer

-factor

-characters

#when using summary, int give quartiles, **factors** give counts, characters give

#

Print(df$Carrier)

Airline <- df$Carrier

Airline[0]

**#dataframes in r are preferred….**

#dataframes provide data in form people are used to working with in excel and sql, taking rectangles and changing shape…

**Creating data frames from scratch**

#authors: Heinlein, Asimov, Stephenson

#birthday: 1900, 1930, 1959

**Taking elements and building frame**

#creating vector (one dimensional array) through concatenation

authors <- c(“Heinlein”, “Asimov”, “Stephenson”)

authors

class(authors)

birthdays <- c(1918, 1920, 1959)

birthdays

class(birthdays)

#asking it to tell us the class, the type of the object

#combines both vectors into a data.frame

scifi <- data.frame(authors, birthdays)

view(scifi)