R Functions in Alteryx :: **CHEAT SHEET**

R Tool Inputs and Outputs

read.Alteryx("#1", *mode = "data.frame"***)**
Stream in a connected data input to the R Tool.
Options for mode include "data.frame" or "list".

read.Alteryx.First("#1", *5000, mode = "data.frame"***)**
Stream in values in chunks by adding a number of
records argument. Replace First with Next to get the
next chunk of records.

write.Alteryx(OutputObject, 1)
Writes data out of R Tool to one of five anchors.

Reading and Writing R Objects

the.obj <- vector(mode="list", length=2)
the.obj[[1]] <- c(model.name)
the.obj[[2]] <- list(the.model)
names(the.obj) <- c("Name", "Object")
Convert model object to writeable format.

unserializeObject(as.character(model_df$Object))
Convert model object back to R format.

Writing out Plots

**WHR <- graphWHR(inches = "True", in.w = 4, in.h =
4, resolution = "2x", print.high = FALSE)**
Function that creates an object that can define
parameters of AlteryxGraph.

**AlteryxGraph(1, width = WHR [1], height = WHR[2],
res = WHR[3], pointsize = 9)**
Creates a plot in one of five output anchors. Plot
code immediately following this function will be
written out to the specified anchor.

invisible(dev.off())
Closes the plot windows created by R.

Messages

AlteryxProgress(0.25)
Set Script Completion Progress in 25% increments.

**AlteryxMessage("message", msg.costs$INFO,
priority.consts$LOW)**
Write messages to the results window. Options for
msg.costs are INFO, WARNING, FIELD_CONVERSION
ERROR, or ERROR. Options for priority.consts are LOW
MEDIUM, or HIGH.

stop.Alteryx("message")
Stop running R code with an error message.

Which Version of R is Alteryx Using?

R.Version()$version.string
Returns the current R version in use.

Alteryx Version	R Version
10.6	3.2.3
11.0 - 2018.1	3.3.2
≥2018.2	3.4.4

Interface Tools & Environmental Variables

%VariableType.<VariableName>%
The syntax for accessing environmental variables in
the R Tool, where **VariableType** is the Type of
variable, and **<VariableName>** is the specific Name of
the variable.

Variable	Variable Type
Interface Tool	Question
Engine Variable	Engine
User Variable	User

Metadata

if(AlteryxFullUpdate)
Determines if Alteryx is refreshing, which allows
metadata to update. Can be used with an ifelse
statement to run MetaInfo functions during refresh.

read.AlteryxMetaInfo("#1")
Stream in connected input's metadata.

**write.AlteryxAddFieldMetaInfo(1, name = "Column",
fieldType = "String", size = 15, source = "RTool",
description ="fieldInfo")**
Streams out metadata from a single column to the
specified output anchor.

write.AlteryxGraphMetaInfo(1)
Streams out graph metadata from R Tool to the
specified anchor.

Installing Packages

**install.packages("pkg", repos =
"http://cran.rstudio.com")**
When installing with the R Tool, be sure to specify the
repository option, or the install will fail.

Developing R Code for Alteryx

https://github.com/alteryx/jeeves
This package can be used to assist with development of
code intended for use in Alteryx.

**install.packages("jeeves", repos =
'http://alteryx.github.io/jeeves')**
Install the package binary from github.

devtools::install_github("alteryx/jeeves")
Build the package from source.