

Who we are, What we do, What we do for R

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UseR! 2015

Who We Are

- Alteryx is a late stage startup in the business software sector that specializes in data blending and advanced analytics
 - Data Blending: Combining and manipulating data from multiple data sources
 - Advanced Analytics: Predictive (based on R) and geospatial analytics
- Major locations
 - Headquarters: Irvine, California
 - Development Center: Boulder, Colorado
 - Marketing and Advanced Analytics: San Mateo, California
- Our customers
 - Cover a large number of industry verticals
 - Are in a growing number of countries

A Sampling of Our 1000+ Customers





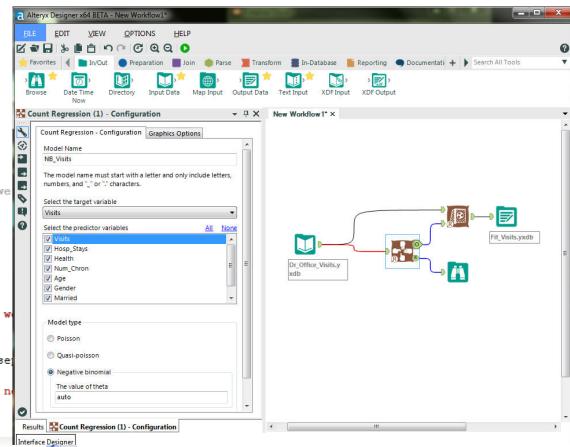
What we do

- Technically, Alteryx...
 - Is a data pipelining environment
 - Is a visual programming environment
 - Provides a platform to distribute analytical solutions across an organization
- Why does this matter?
 - Currently, business analytics is disjointed and complex

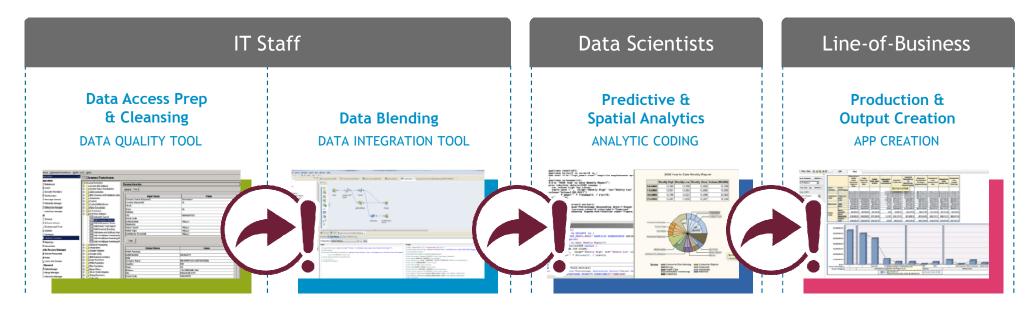
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```
# Read the data into R
the.data <- read.Alteryx("#1")
# Get the field names
name.y.var <- names(the.data)[1]
names.x.vars <- names(the.data)[-1]
# Boolean if weights are used
used.weights <- '%Question.Use Weights%' == "True"
# Adjust the set of field names to remove the weight field if we
if (used.weights) {
 use.probs <- '%Question.samp.probs%' == "True"
 the.weights <- names.x.vars[length(names.x.vars)]</pre>
 names.x.vars <- names.x.vars[1:(length(names.x.vars) - 1)]</pre>
 has.survey <- "survey" %in% row.names(installed.packages())
 if (has.survey && !is.XDF) {
   library(survey)
   the.design <- eval(parse(text = paste("svydesign(ids = ~1, w
 } else {
    if (is.XDF) {
      weight.arg <- paste(", pweights = '", the.weights, "'", se
   } else {
      stop. Alteryx ("Unable to find the survey package which is n
```



Today's Analytic Process is Broken

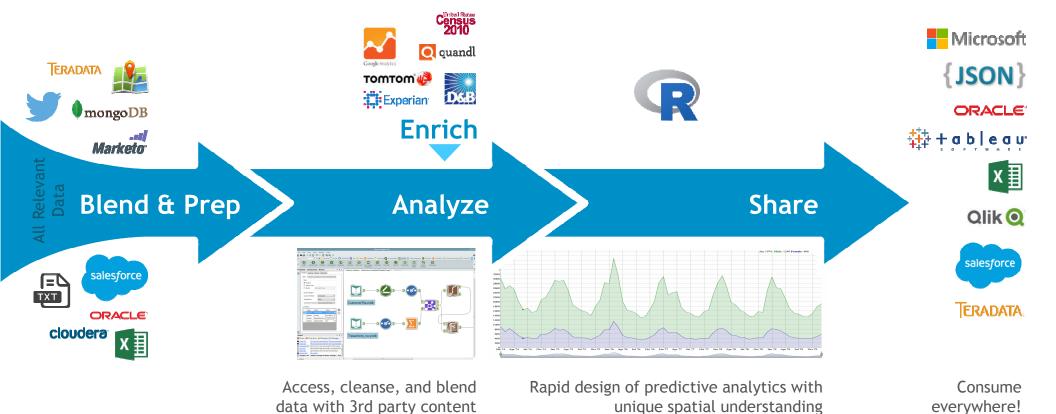


Slow, long process

Multiple tools and process steps

Expensive software and labor

The Alteryx Solution For Analyst Enablement

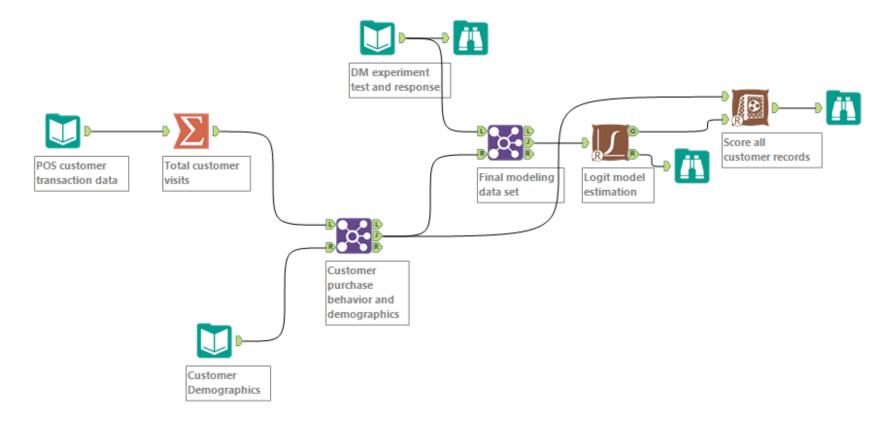




While >200M+ Data Workers are Underserved...



An Example Alteryx Workflow



What we do for R

- Greatly expand the set of potential R users via Alteryx's visual programming framework
 - Bob Muenchen indicates that Alteryx is "What R has been missing"
- Supporting open source development of R related projects
 - htmlwidgets: https://github.com/ramnathv/htmlwidgets
 - SparkR: https://github.com/amplab-extras/SparkR-pkg
 - SparkGLM: https://github.com/AlteryxLabs/sparkGLM
 - ml-matrix: https://github.com/amplab/ml-matrix/graphs/contributors
- Financial support of the R project
 - Sponsorship of the UseR! Conference
 - A founding member of the R Consortium

r4stats.com

Analyzing the World of Analytics



← Learn R and/or Data Management from Home October 7-11 Knoxville R User's Group Meeting November 1 →

What R Has Been Missing

Posted on October 17, 2013

While R has more methods than <u>any other analytics software</u>, it has been missing a crucial feature found in most other packages. <u>SPSS Modeler</u> had it first, way back when they still called it Clementine. Then SAS Institute realized how crucial it was to productivity and added it to <u>Enterprise Miner</u>. As its reputation spread, it was added to <u>RapidMiner</u>, <u>Knime</u>, <u>Statistica</u>, <u>Weka</u>, and others. An early <u>valiant attempt</u> was made to add it to R. What is it? It's the flowchart-style graphical user interface. And it will soon be available in

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