





What is R? What is WMRUG?

Announcements

Upcoming conferences, local R jobs, Current Events



What is R?
Paul Egeler, Spectrum Health



R for Report Automation
Aaron Clark, Advanced Radiology Services



Agenda: 2nd & 3rd Session



When Less is More: Picking your R (starter) Toolkit
Randall Pruim, Calvin College

9:20am - Grand Gallery B



Statistical Machine Learning with R
David Zeitler, Grand Valley State University
10:25am - Grand Gallery B

What is R?





what is R?





All

Videos

News

Shopping

Images

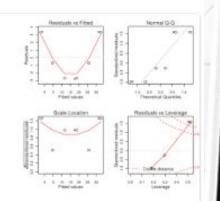
More

Settings

Tools

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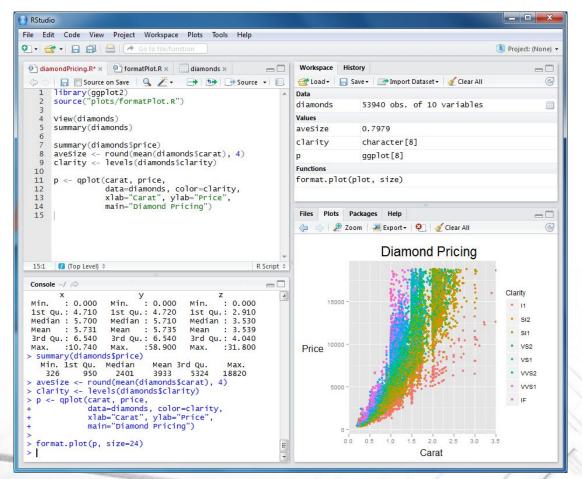
R is an open source programming language and software environment for statistical computing and graphics that is supported by the **R** Foundation for Statistical Computing. The **R** language is widely used among statisticians and data miners for developing statistical software and data analysis.



R (programming language) - Wikipedia https://en.wikipedia.org/wiki/R_(programming_language)

What is R?

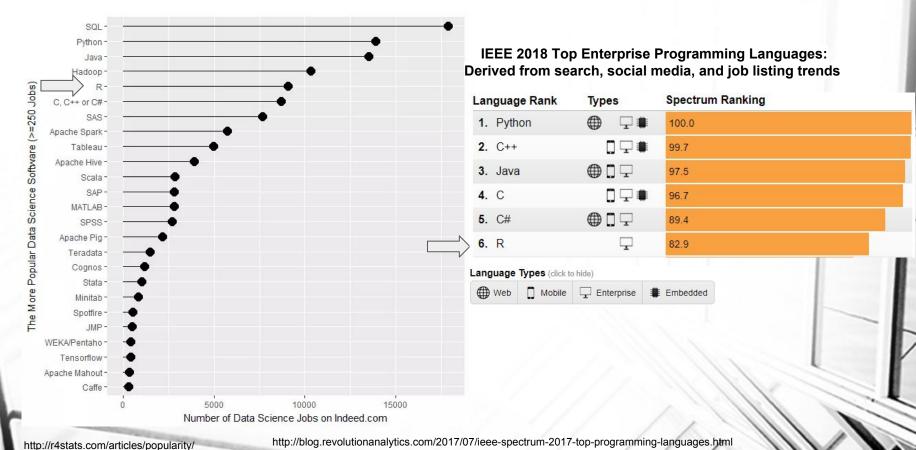




What is R?



Data Science Jobs by Language/Software (Feb 2017)



What is WMRUG?

<-'West Michigan R Users Group'



A Community to

- Learn
- Share
- Innovate
- Troubleshoot
- Network



For R-Users, by R-users!

Meet Monthly on 3rd Tuesdays

Usually @ GVSU's Downtown Campus









Call for Presenters!

Lightning Talks:

- 10 min talk with 5 minutes or questions
- Great opportunity for students

R Use-cases

30-50 min talk with time for questions

In Either case...

- Get R-swag
- Add presentation to Resume/CV
- Share your knowledge!



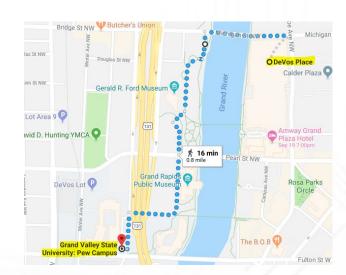


Next Meeting: Tues, Oct 16th



R for the Full Analytics Stack
Paul Egeler, Spectrum Health

6p - 8p DEV 121E Pew Campus GVSU





Announcements

Upcoming Conferences/Talks with R Topics

Global Data Science Conference: Sep 25 - 27

Boston, MA

http://globalbigdataconference.com/

Open Data Science Conference: Oct 31 - Nov 3

San Francisco, CA https://odsc.com/

Data Science Pop-up: Oct 30

Chicago, IL

https://popup.dominodatalab.com/

Rstudio Conf: Jan 15 - 18

Austin, TX

https://www.rstudio.com/conference/











Announcements



New Remote R Jobs

In the last month... via r-users.com

Part-Time	Big Data Discovery Automation in Digital Health (5-10 hours per week) MedStar Institutes for Innovation – Posted by Praxiteles	Anywhere	7 Sep 2018
R&D Database Developer Crescendo Technology Ltd – Posted by Crescendo – Anywhere			10 Aug
Algorithm Developer Crescendo Technology Ltd – Posted by Crescendo – Q Anywhere		10 Aug	

Predictive Modeling & Data Analytics Lead

DW Simpson Global Actuarial Recruitment United States

Announcements



New Local R Jobs

In the last month... via r-users.com

Senior Software Developer - new

Initech Global

Grand Rapids, MI 49546

Needs experience in object-oriented programming on Python, R, java or .Net

Research Associate - Cancer Metabolism

Van Andel Institute ***** 8 reviews

Grand Rapids, MI

R), and experience with the analysis of large data sets (i.e. Research Associate -

Bioinformatics Research Scientist

Van Andel Institute ***** 8 reviews

Grand Rapids, MI

Experience in R (Required) and at least one other programming/scripting language

Computational Biologist - Epigenetics in Metabolism

Van Andel Institute ***** 8 reviews - Grand Rapids, MI

Consulting Advanced Analytics Analyst - new

Steelcase **** 436 reviews

Grand Rapids, MI 49508

Research Associate-Fixed Term - new

Michigan State University *** 543 reviews

Grand Rapids, MI

The ideal candidate should have experience with eye-tracking methodology and analyses, programming knowledge, and experience using R, MATLAB, or Python

Senior Business Intell Analyst (Supply Chain)

Spectrum Health **** 602 reviews - Walker, MI

Computational biologist - peds oncology program

Spectrum Health **** 602 reviews

Grand Rapids, MI

Programming experience in R and Unix. Experience - Bioinformatics, especially DNA sequence analysis, R programming, and laboratory information management...

Biostatistician Lead Peds Oncology Research Program

Spectrum Health **** 602 reviews

Grand Rapids, MI

Pricing Data Analyst

Meijer **** 6,648 reviews - Grand Rapids, MI



1st Talk

What is R?

-Paul Egeler, Spectrum Health

Networking ice breaker!

- 1) Name
- 2) Company & Role
- 3) Their experience with R



2nd Talk

R for Report Automation

-Aaron Clark, Advanced Radiology Services

A Typical "Old School" Reporting Process





Download/ Query Data. Plop into excel for cleaning, summarizing, & graphics



Copy and paste tables and graphics into Word. Perhaps add some notes/narration.



Print as PDF!



Compose and email and attach PDF.

Script the Process in R















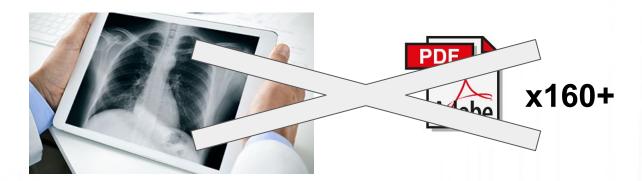


Why Change?

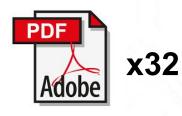
- Weave together a narrative of text, graphics, and code, so everything's in one place file!
- Makes analysis very shareable/ reproducible
- You can Scale the process up! More reports != more work
- Use multiple languages, like Python & SQL
- Supports many output formats: HTML, Word, PDF, Slides, etc
- Fast
- Easy

A Reside Example



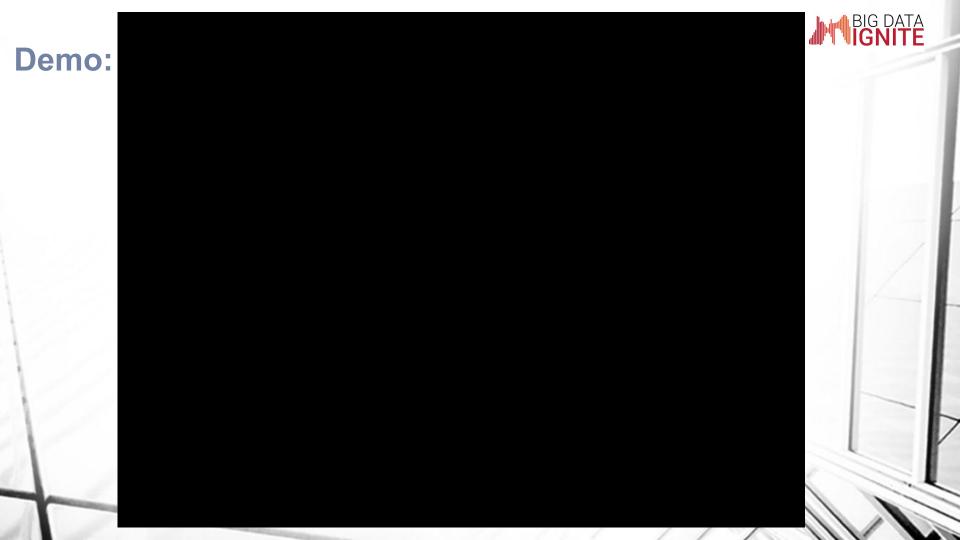






Demo!

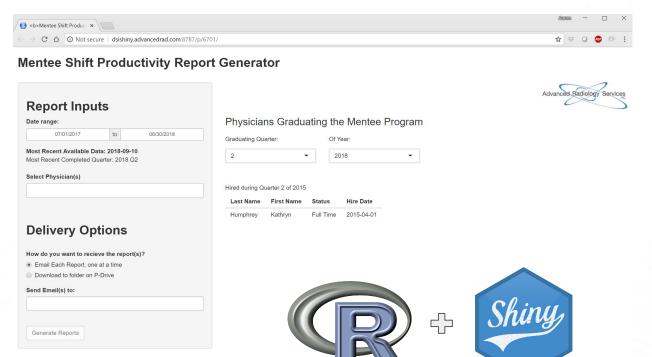
Code: https://github.com/WestMichiganRUserGroup/Meeting-Materials





With Great Power Comes Great Responsibility

-Ben Parker





BIG DATA IGNITE **Shiny App Report Generator**

