



TT01

Experiences of training teams in R

Alanah Jonas

About me

- Principal Data Scientist at GSK
- Transitioned from Clinical Programming to Data Science
- Comprehensive Training Involvement
- Experience using R as a programmer and in data science

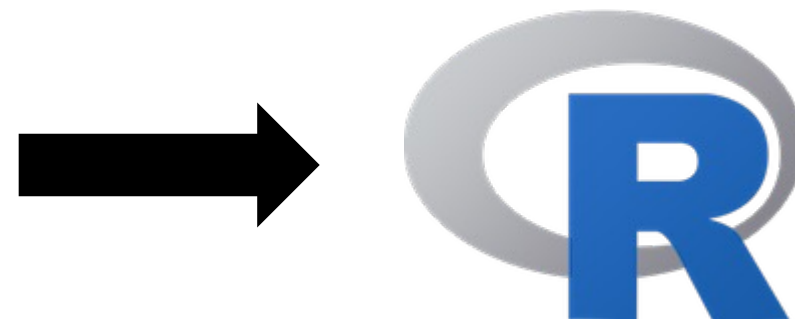
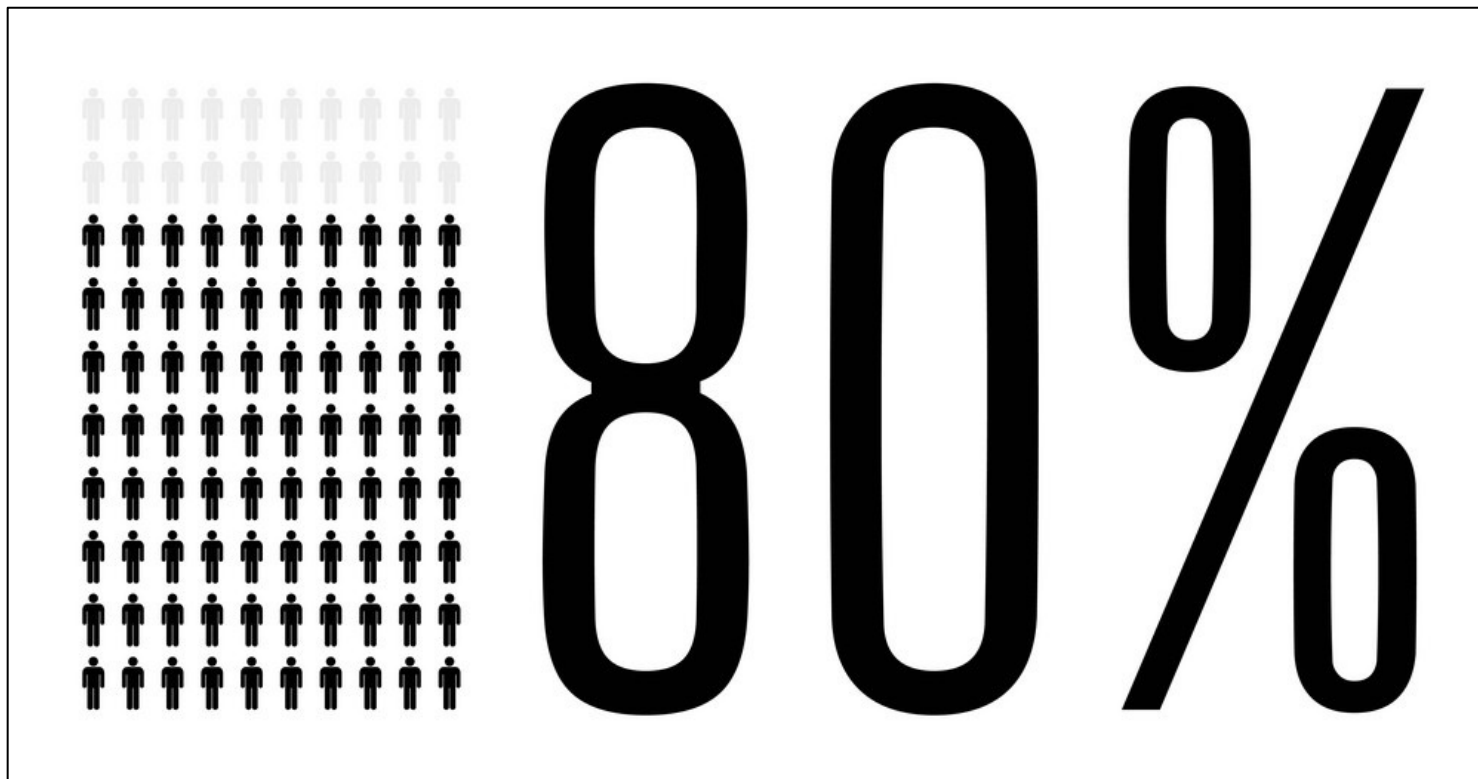


Introduction

As we have evolved in our use of programming languages so have our methods of training



Our Goal



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Core Training Methods



In-person classes

Pros:

- Focused Learning
- Immediate Assistance

Cons:

- Pandemic Challenges
- Global Coordination
- Timing Difficulties
- Knowledge Erosion



Virtual classes

Pros:

- Scale and Reach
- Pandemic Adaptability
- Geographical Flexibility
- Recordable

Cons:

- Engagement Challenges
- Distractions
- Exercise Participation
- Resource Intensiveness
- Scheduling Conflicts
- Adaptation Difficulty



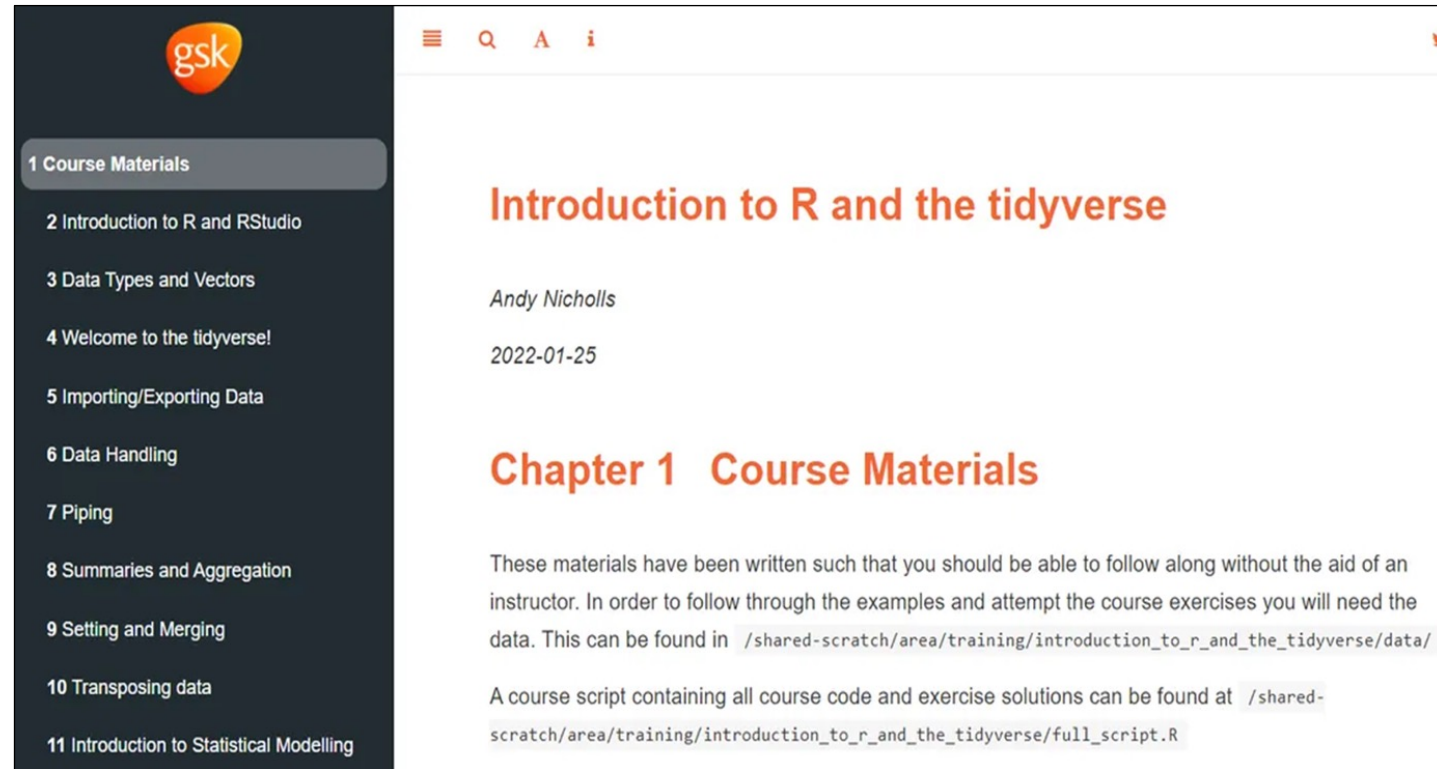
Documentation guides with examples

Pros:

- On-Demand Access
- Timely Reference
- Efficient Search
- Guidance through Examples

Cons:

- Lack of Interactivity
- Incomplete Coverage
- Resource Intensive



Pivotal Moment - AccelerateR



AccelerateR

Tailored study team training sessions before start programming

Pros:

- Timely Knowledge
- Customised Training
- On-Demand Assistance
- Personalised Interaction

Cons:

- Increased Organizational Demand



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Supplemental Training Methods



R Code Corners

Small bi-monthly R tasks

Pros:

- Effective Introduction to R
- Guided Learning
- Celebrating Achievements

Cons:

- Limited Engagement
- Resource Intensive

JUNE'S TRAILBLAZERS

Liam Hobby
Kedar P.
estha
ddygar
anti

FINDINGS

- Use of appropriate {admiral} functions!
- ADVS dataset created

R CODE CORNERS

Driving Agility in Clinical Reporting through R Programming Challenges

What?	Why?	When?	How?
R Code Corners is a platform for challenges on the algorithms and logic that we use in our day-to-day programming	To build R expertise within the Biostatistics community and to bridge the gap between R training and its application in clinical reporting	<u>Challenge:</u> First week of every alternate month <u>Announcement of results:</u> Following week	Interested participants should complete the challenge and confirm this via mail to RD_BIOSTATS_R4QC <u>Output file naming format:</u> RCC_<YYYYMM>_<MUDID>.R (Example: RCC_202202_xyz12345.R)

returning NA values.

- Use exprs() instead of vars() as vars() has been deprecated.
- Use factor levels in ggplot to arrange visits in chronological order.

Ajay Kumar D...
Hudson
G Gayatri
Madhukar G

Hackathons

Pros:

- Focused Skill Development
- Collaborative Learning

Cons:

- Time Commitment Constraints
- No Follow-Up Support
- Intimidating
- Highly Demanding



DataLabs

Introduces... Hackathons!

DataLabs will be back on 14th November and this year, we're introducing not one, but **two virtual hackathons!**

Would you like to get hands on experience using Excel, PowerBI or SQL? Or would you prefer wrangling, modelling, and visualising R&D datasets using R or Python?

Take your pick between the **D&A Hackathon** for regular users of D&A and the **Data Science Challenge** for D&A experts.

This is your chance to **develop your D&A skills** whilst working with others from different business units in a **fun environment**... there will be prizes!

Sign-Up here! →

Part of the GSK Data Academy



R Book Club

Pros:

- Focused Group Learning
- Organisational Simplicity

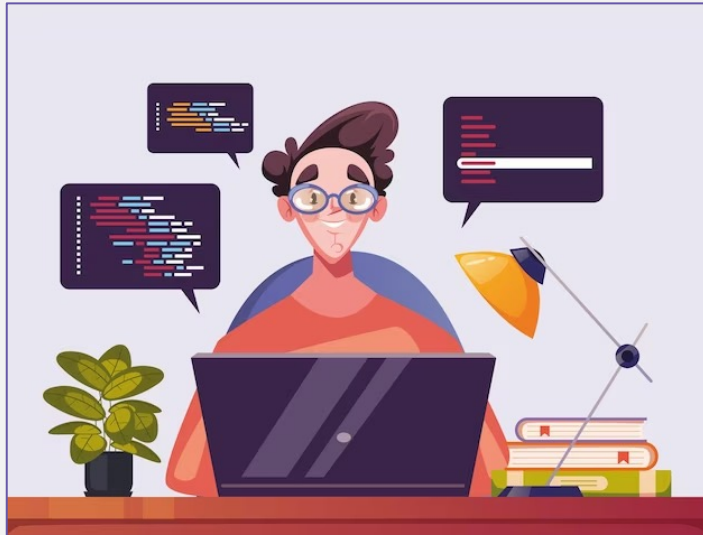
Cons:

- Substantial Commitment
- Varied Engagement Across Weeks
- Limited Discussion

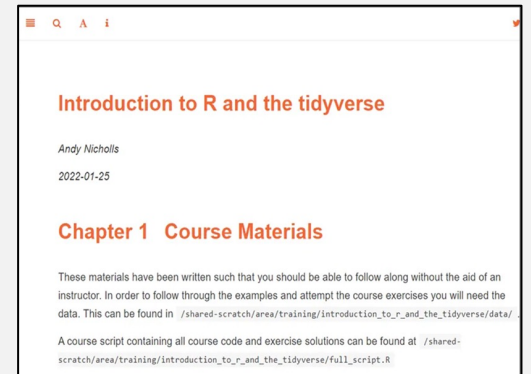


Conclusions & Recommendations

Application of R skills is vital for knowledge retention



Diverse training methods works best for success





Any questions?

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