

Introduction to R & ActivityInfo

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2022-09-22



Presentation outline

- What is R?
- Set up
- Connecting to ActivityInfo
- Retrieving ActivityInfo data with R
- Updating ActivityInfo databases with R

Introduction to R

What is R?

R is an open source programming language and environment for statistical computing.

R has origins in the S language, created in the 1980s at Bell Labs.

The R package repository has over 18,000 packages covering every conceivable domain.

RStudio

RStudio is a user-friendly Integrated Development Environment (IDE) for the R language.

Tidy data and the Tidyverse

The tidyverse is a collection of R packages designed for data science.

All packages share an underlying design philosophy, grammar, and data structures.

Set up

Getting set up

1. Install R ([Windows](#))
2. Install [RStudio](#)

Getting set up - packages

```
install.packages("remotes")
remotes::install_github("bedatadriven/activityinfo-R")
install.packages("tidyverse")
# Go make some coffee :-)
```

Getting set up - authentication

1. Add a Personal API token
2. `activityInfoLogin()`

Query ActivityInfo from R (and a quick intro to R)

Some useful functions from activityinfo-R...

- `getDatabases()`
- `getDatabaseTree(databaseId)`
- `queryTable()`

Bringing data into ActivityInfo

Bringing data into AI

- `addRecord()`
- `updateRecord()`
- `importTable()`

More resources on learning R

- [Getting started with data in R](#)
- [R for Data Science](#) book
- [A Gentle Introduction to Tidy Statistics in R](#)