
R Shiny Applications within Ophthalmology

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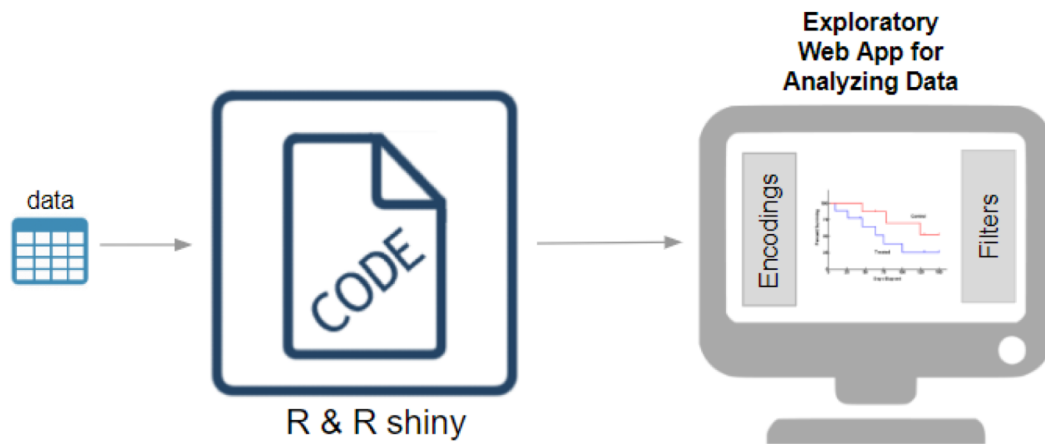
Overview

- Introduction
 - Why use R Shiny applications for our study work?
 - Roche's TEAL package
- Application Layout
- Demo
- Advantages for Ophthalmology

Why use R Shiny?

- Provides a framework for fast and efficient exploratory analysis of clinical trial data
- Ease of access and usage of data and results through a web URL
- Great for quick quality control checks
- Share insights in a more intuitive, interactive way that enables self-service analysis

Roche's "TEAL" package



Teal Development Roadmap

Application Layout

- Four Main Modules
 - Data Table
 - Variable Browser
 - Demographics
 - Efficacy (containing five different analyses)
- Encoding and filtering panel
- “Show R Code” button

Note: The demo is using two dummy ADaM datasets; Subject Level Analysis Dataset (ADSL) and Ophthalmic Examinations Analysis Dataset (ADOE)

Demo

A video demonstration will be presented

Advantages for Ophthalmology

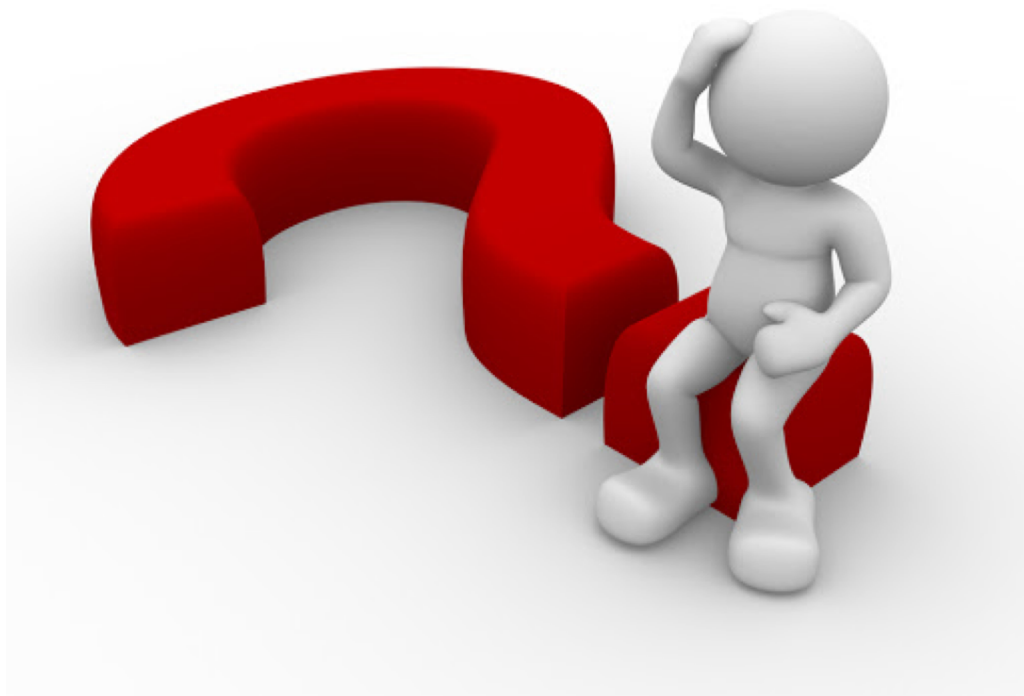
- Ophthalmology studies can have hundreds of parameters recorded per patient in its Ophthalmology assessment and imaging data
 - Ability to quickly filter out different parameters of interest
- Efficient (automated)
- Easy setup to create tables, listings and graphs (TLGs)
- Platform-independent
- Transparent analysis environment

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Doing now what patients need next