

Session 9: Introduction to Shiny Apps

Al Cooper

¹Research Aviation Facility, Earth Observing Laboratory
National Center for Atmospheric Research

July 27, 2017

WHAT IS A SHINY APP?

The Purpose:

- Provide interactive analysis tools, in which you can change display characteristics via application “widgets” without reprogramming.
- Greatly facilitate by RStudio: develop and test here, then deploy.
- Particularly suited to web display.
- Isolates the interactions from the program.

Where to Find Information

See the Shiny app tutorial! (The preceding sentence has a live link to it.) This tutorial is so useful that the present session won't try to duplicate that material. Instead, only a few examples are included here as motivation to look into this further.

Some examples developed for the Instrumentation Modules:

These are live links:

- Examples of Transfer Functions
- Explanation of Resolution of Instruments
- A Calibration Exercise
- The Ideal Gas Law
 - The last one also includes an example produced by “plotly,” which can produce 3D views of plot surfaces that can be viewed from user-specified angles.

THE RANADU SHINY APP

Here is a link that will start the Shiny-app version of Ranadu in a window on your browser:

RanaduShinyApp