



Inspiration: A NoVA app

**The Shiny app: <https://testing-apps.shinyapps.io/diary> and**

Choose CSV File

Browse...

No file selected

☒ Header

Separator

- ☒ Comma
- ☐ Semicolon
- ☐ Tab

Quote

- ☐ None
- ☒ Double Quote
- ☐ Single Quote

 Download sample datasets

How to & credits

PARADISE

Choose CSV File

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No file selected

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- ☐ Tab

Quote

- ☐ None
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 Download sample datasets

How to & credits

**Choose CSV File**

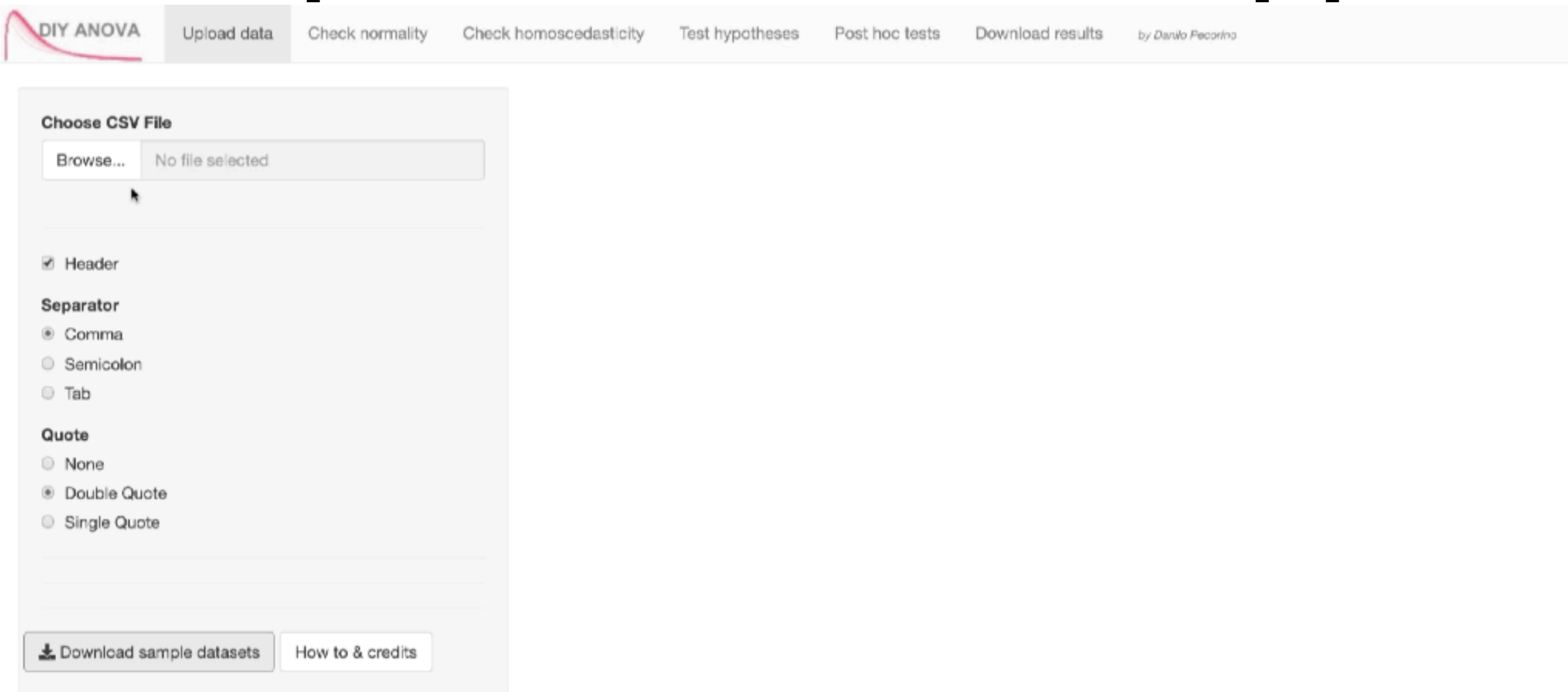
Browse...

No file selected

☒ Header**Separator**☒ Comma☐ Semicolon☐ Tab**Quote**☐ None☒ Double Quote☐ Single Quote Download sample datasets

How to &amp; credits

# Inspiration: ANOVA app



The screenshot shows the 'DIY ANOVA' Shiny app interface. At the top, there is a navigation bar with the app name and several tabs: 'Upload data' (active), 'Check normality', 'Check homoscedasticity', 'Test hypotheses', 'Post hoc tests', and 'Download results'. Below the navigation bar, the main content area is titled 'Choose CSV File'. It features a 'Browse...' button and a text field indicating 'No file selected'. Below this, there are three sections: 'Header' with a checked checkbox, 'Separator' with radio buttons for 'Comma' (selected), 'Semicolon', and 'Tab', and 'Quote' with radio buttons for 'None', 'Double Quote' (selected), and 'Single Quote'. At the bottom of the form, there are two buttons: 'Download sample datasets' and 'How to & credits'.

**The Shiny app:** [https://testing-apps.shinyapps.io/diy\\_anova/](https://testing-apps.shinyapps.io/diy_anova/)

?GAD::rats



# In summary

- Many benefits to having an interactive GUI generate reproducible code (transparency, permanence, automation)
- **shinymeta**: new R package for capturing logic in a Shiny app and exposing it as code that can be run outside of Shiny
- Add **shinymeta** integration to a Shiny app by:
  1. Identify and capture domain logic
  2. Mark reactive reads with `..()`
  3. Export domain logic with `expandChain()`