Online Applications with Rpad

www.Rpad.org

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What is Rpad?

• Browser-based interface to R.
• Easy way to make web-based front-ends to analytical applications.
• AJAX-style interface – all updates are done within the page dynamically – no browser refreshes.
• R code is embedded in the HTML and can be displayed to the user (use view page source to see the HTML and R code).
• End user doesn’t need R installed.

Server installation

• Works with Apache or other web server.
  — Perl backend based on Statistics-R by Graciliano Monteiro Passos.
  — Use CGI or mod_perl.
• Runs a separate R process for each web page.
  — Good isolation between pages and processes but a resource hog.
• Some security issues.

Local installation

• Runs a mini-web server in a local copy of R.
  • http://127.0.0.1:8079/
• Mini-web server is in tcl.
• Use the R command prompt and the browser interface.
• Good for testing and developing Rpad pages.
<p>Data frames</p>
<pre dojoType="Rpad" rpadType="R">
data(iris)
HTMLon()
HTML(head(iris))
</pre>