A Tutorial on building R Web Applications with Rook

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Rook is an R package that does three things:

- It provides a way to run R web applications on your desktop with the new internal R web server named Rhttpd.

- It provides a set of reference classes you can use to write your R web applications.

- It provides a specification for writing your R web applications to work on any web server that supports the Rook specification.

This tutorial will cover the basics of web programming in the context of R with Rook. Topics covered will include an overview of the Hypertext Transport Protocol, HTML, and Javascript. R Reference classes will be explained with example code using Rook's convenience classes.

Other topics covered will include strategies for sending and retrieving data through an R web application, utilizing templating systems like brew or Sweave, generating on-demand graphics, construction of web services, etc.