Rook is a new 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. The following help pages provide more information: Brewery, Builder, File, Middleware, Redirect, Request, Response, Static, URLMap, and Utils.

- It provides a specification for writing your R web applications to work on any web server that supports the Rook specification. Currently, only Rhttpd implements it, but rApache is close behind.
R Web Apps on your Desktop with Rhttpd

> library(Rook)
Loading required package: tools
Loading required package: brew
> s <- Rhttpd$new()
> s$start()
done

Server started on host 127.0.0.1 and port 17650. App urls are:

http://127.0.0.1:17650/custom/RookTest

> s$print()
Server started on 127.0.0.1:17650
[1] RookTest http://127.0.0.1:17650/custom/RookTest

Call browse() with an index number or name to run an application.
> s$browse(1)
Rook Reference Classes for building Web Apps

```r
app <- Builder$new(
    Static$new(
        urls = c('/css', '/images', '/javascript'),
        root = '.
    ),
    Static$new(urls='/plots',root=tempdir()),
    Brewery$new(url='/brew',root='.'),
    App$new(function(env) {
        req <- Request$new(env)
        res <- Response$new()
        res$redirect(req$to_url('/brew/useR2007.rhtml'))
        res$finish()
    })
)
```
Rook defines the calling convention between Rhttpd and web applications.
rApache with added support for Rook applications

{Web Browser}

Apache child process

Apache

mod_R

R Application Space

/path/to/app.R::handler

brew::brew

app(env)

app$call(env)
Rookery located here:

https://github.com/jeffreyhorner/rRack
http://groups.google.com/group/rrook

jeff.horner@vanderbilt.edu
http://twitter.com/#!/@jeffreyhorner
http://jeffreyhorner.tumblr.com/
https://github.com/jeffreyhorner