

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 you 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.**

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<https://github.com/jeffreyhorner/rRack>

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

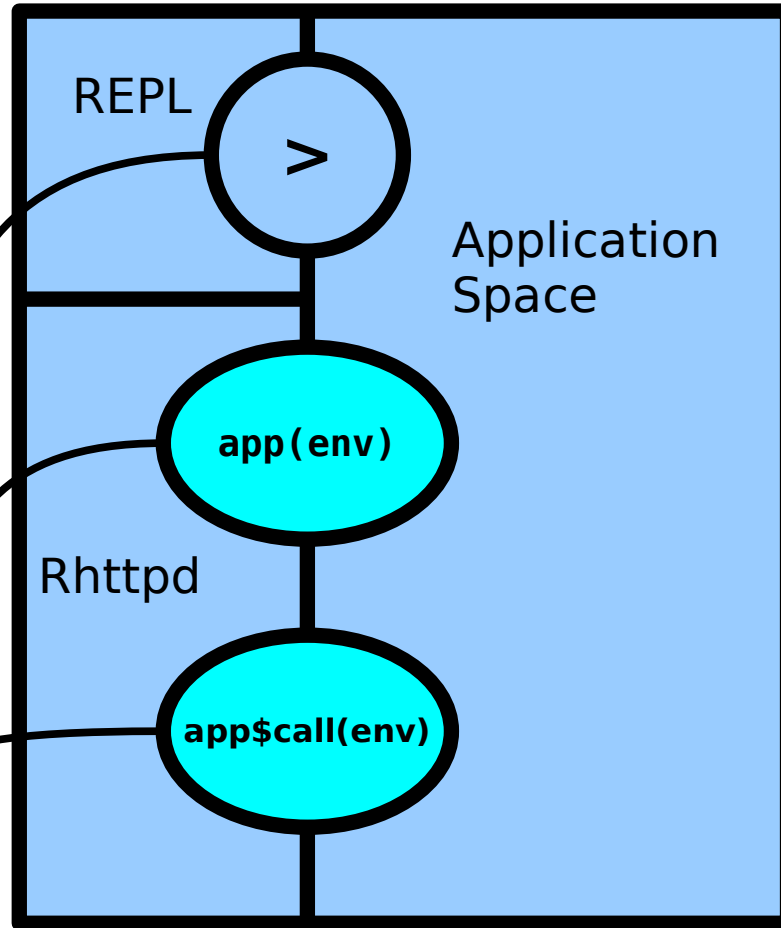
```
app <- Builder$new(  
  Static$new(  
    urls = c('/css','/images','/javascript'),  
    root = '.'  
  ),  
  Static$new(urls='/plots',root=tempdir()),  
  Brewery$new(url='/brew',root='.'),  
  App$new(function(env) {  
    req <- Request$new(env)  
    res <- Response$new()  
    res$redirect(req$to_url('/brew/useR2007.rhtml'))  
    res$finish()  
  })  
)
```

R interpreter

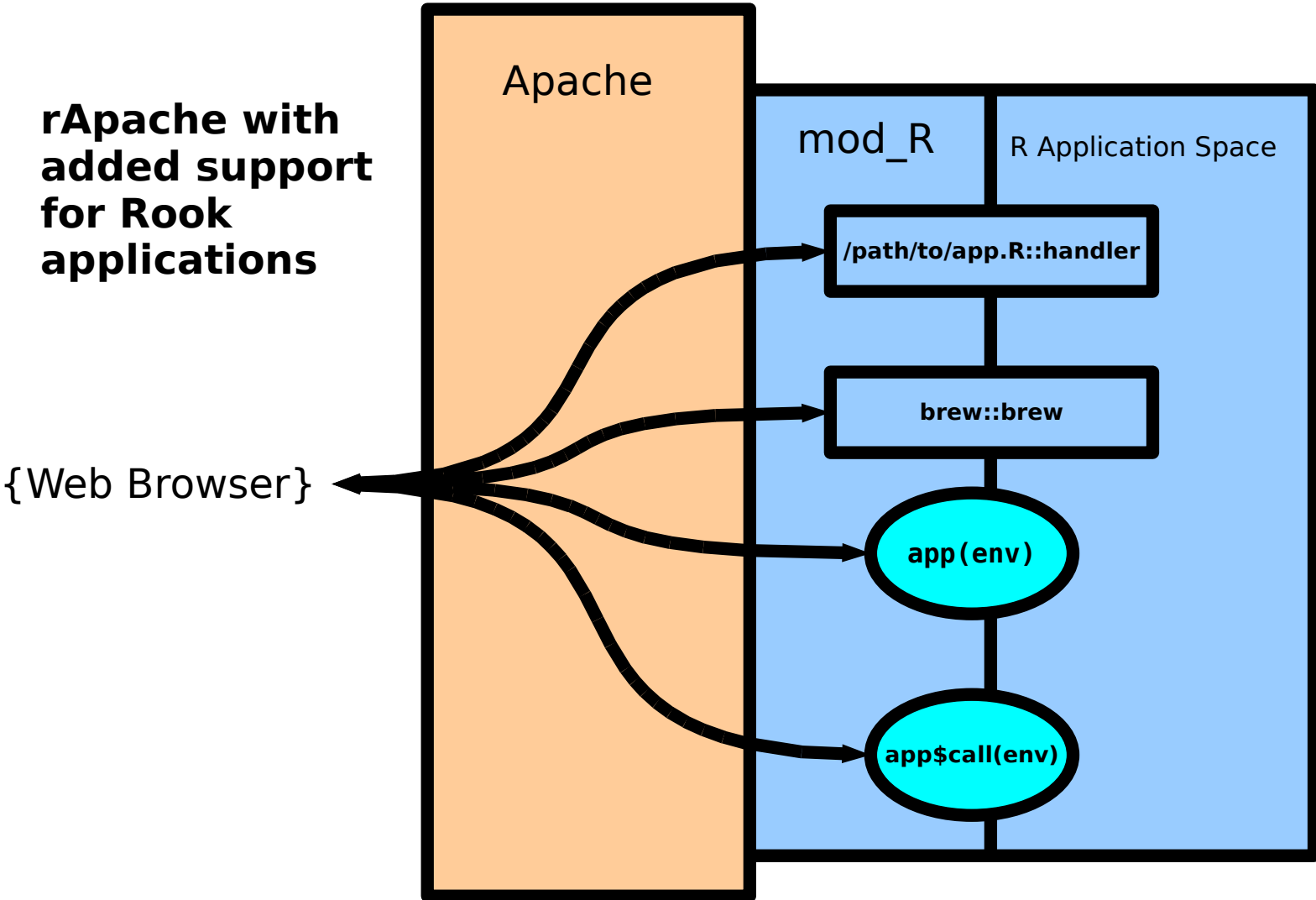
Rook defines the calling convention between Rhttpd and web applications.

{Keyboard}

{Web Browser}



Apache child process



Rookery located here:

<https://github.com/jeffreyhorner/rRack>

<http://groups.google.com/group/rrook>

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<http://twitter.com/#!/@jeffreyhorner>

<http://jeffreyhorner.tumblr.com/>

<https://github.com/jeffreyhorner>