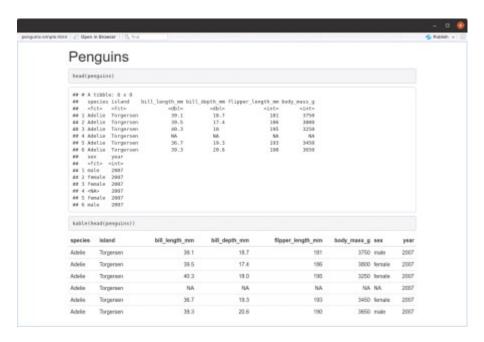
Static Document

Let's start with a .Rmd document which renders two different *static* views of the Palmer Archipelago (Antarctica) Penguin Data.

This is what the rendered document looks like:



The following Shiny application embeds this document perfectly using includeHTML() to read in the HTML file and htmlOutput() to inject it into the UI.

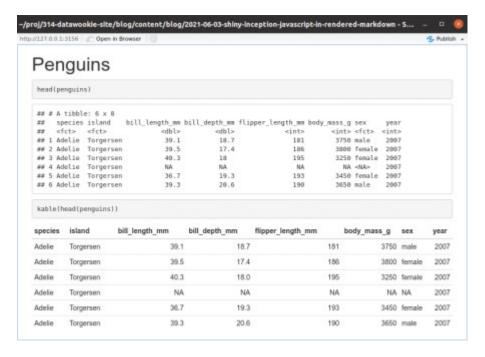
```
library(shiny)
library(rmarkdown)

ui <- fluidPage(
    htmlOutput("document")
)

server <- function(input, output) {
    output$document <- renderUI({
        path_rmd <- "penguins-static.Rmd"
        path_html <- tempfile(fileext = ".html")
        render(
            path_rmd,
            output_file = path_html
        )
        includeHTML(path_html)
    })

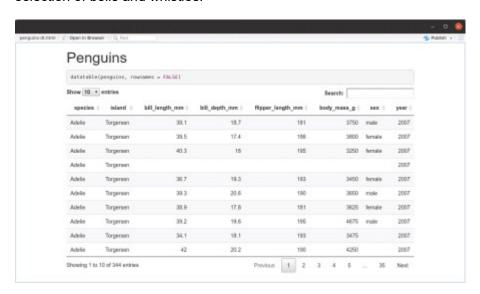
shinyApp(ui = ui, server = server)</pre>
```

And this is what the application looks like. Precisely as expected.



Dynamic Document

Now, let's replace the static document with a .Rmd document using the $\{DT\}$ package to create a *dynamic* table. Simply knitting the document gives the output below, a responsive table with a selection of bells and whistles.



How about simply plugging this into the original Shiny application?

```
library(shiny)
library(rmarkdown)

ui <- fluidPage(
    htmlOutput("document")
)

server <- function(input, output) {
    output$document <- renderUI({
        path_rmd <- "penguins-dt.Rmd"
        path_html <- tempfile(fileext = ".html")
        render(</pre>
```

Let's give that an optimistic whirl.



Doh! The table doesn't appear at all. Why? I'm guessing that the viewer is using JavaScript to run the application but it doesn't extend to running JavaScript in an embedded document.

To get this to work I used an <iframe>, which in retrospect is the obvious solution for embedding a complete HTML page into the application. Getting it to work though is not entirely trivial.

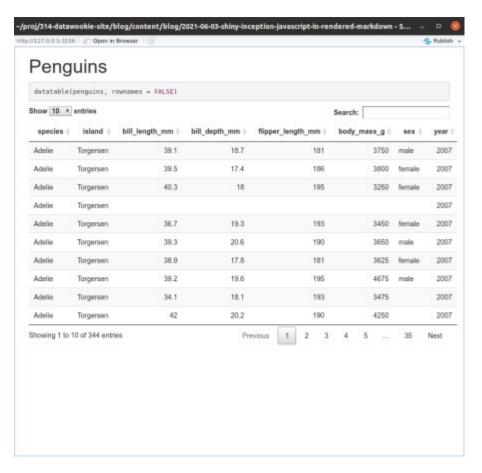
```
library(shiny)
library(here)
library(rmarkdown)
dir.create("www")
ui <- fluidPage(</pre>
    htmlOutput("document")
server <- function(input, output) {</pre>
    output$document <- renderUI({</pre>
        path rmd <- "penguins-dt.Rmd"</pre>
        # Render into www/ folder.
        path html <- tempfile(fileext = ".html", tmpdir = "www")</pre>
        render(
             path rmd,
             output_file = path_html
         tags$iframe(
             style = "border-width: 0;",
             width = "100%",
```

```
height = 800,
    # Filename relative to the www/ folder.
    src = basename(path_html)
    )
})

shinyApp(ui = ui, server = server)
```

There's a bit of plumbing required: the document must be rendered into the www/ folder so that it's visible to the application at runtime.

Here's the result:



Success!