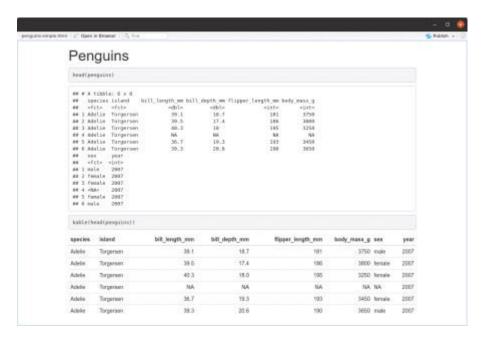
## **Static Document**

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.

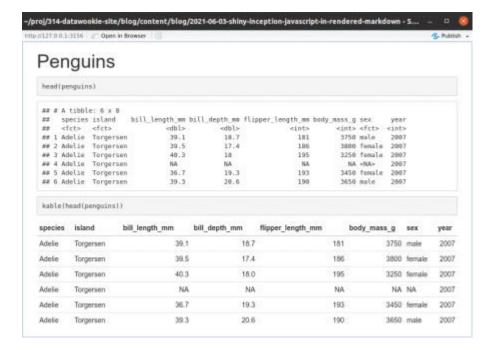
```
library(shiny)
library(rmarkdown)

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)
    })

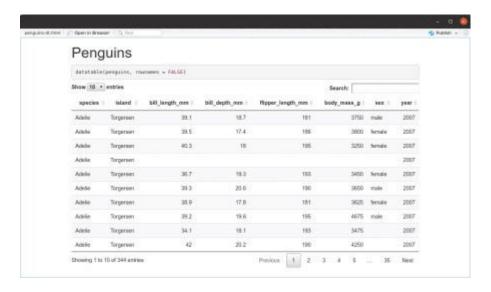
shinyApp(ui = ui, server = server)</pre>
```

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>
```

```
path_rmd,
    output_file = path_html
)
    includeHTML(path_html)
})
shinyApp(ui = ui, server = server)
```

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:

Show 10 v	entries	ownames = FALSE)		Search:			
species	island 1	bill_length_mm	bill_depth_mm :	flipper_length_mm	-	sex :	year
Adelie	Torgersen	39.1	18.7	181	3750	male	2007
Adelie	Torgersen	39.5	17.4	186	3800	female	2007
Adelie	Torgersen	40.3	18	195	3250	female	2007
Adelie	Torgersen						2007
Adelie	Torgersen	36.7	19.3	193	3450	female	2007
Adelie	Torgersen	39.3	20.6	190	3650	male	200
Adelie	Torgersen	38.9	17.8	181	3625	female	2007
Adelie	Torgersen	39.2	19.6	195	4675	male	2007
Adelie	Torgersen	34.1	18.1	193	3475		200
Adelie	Torgersen	42	20.2	190	4250		2007
Showing 1 to	10 of 344 entr	ies	₽te	t 2	3 4 5	35	Next

Success!