



BUILDING WEB APPLICATIONS IN R WITH SHINY

Interface builder functions

tags

```
> names(tags)
[1] "a"           "abbr"        "address"     "area"        "article"
[6] "aside"      "audio"       "b"           "base"        "bdi"
[11] "bdo"        "blockquote"  "body"        "br"          "button"
[16] "canvas"     "caption"     "cite"        "code"        "col"
[21] "colgroup"   "command"     "data"        "datalist"    "dd"
[26] "del"        "details"     "dfn"         "div"         "dl"
[31] "dt"         "em"          "embed"       "eventsource" "fieldset"
[36] "figcaption" "figure"      "footer"      "form"        "h1"
[41] "h2"         "h3"          "h4"          "h5"          "h6"
[46] "head"       "hr"          "html"
[51] "i"          "input"       "ins"
[56] "kbd"        "legend"      "li"
[61] "link"       "mark"        "map"         "menu"        "meta"
[66] "meter"     "nav"         "noscript"    "object"      "ol"
[71] "optgroup"   "option"      "output"      "p"           "param"
[76] "pre"       "progress"    "q"           "ruby"        "rp"
[81] "rt"        "s"           "samp"        "script"      "section"
[86] "select"    "small"       "source"      "span"        "strong"
[91] "style"     "sub"         "summary"     "sup"         "table"
[96] "tbody"     "td"          "textarea"    "tfoot"       "th"
[101] "thead"    "time"        "title"       "tr"          "track"
[106] "u"        "ul"          "var"         "video"       "wbr"
```



`<i> some text </i>`

tag → HTML

```
> tags$b("This is my first app")  
<b>This is my first app</b>
```

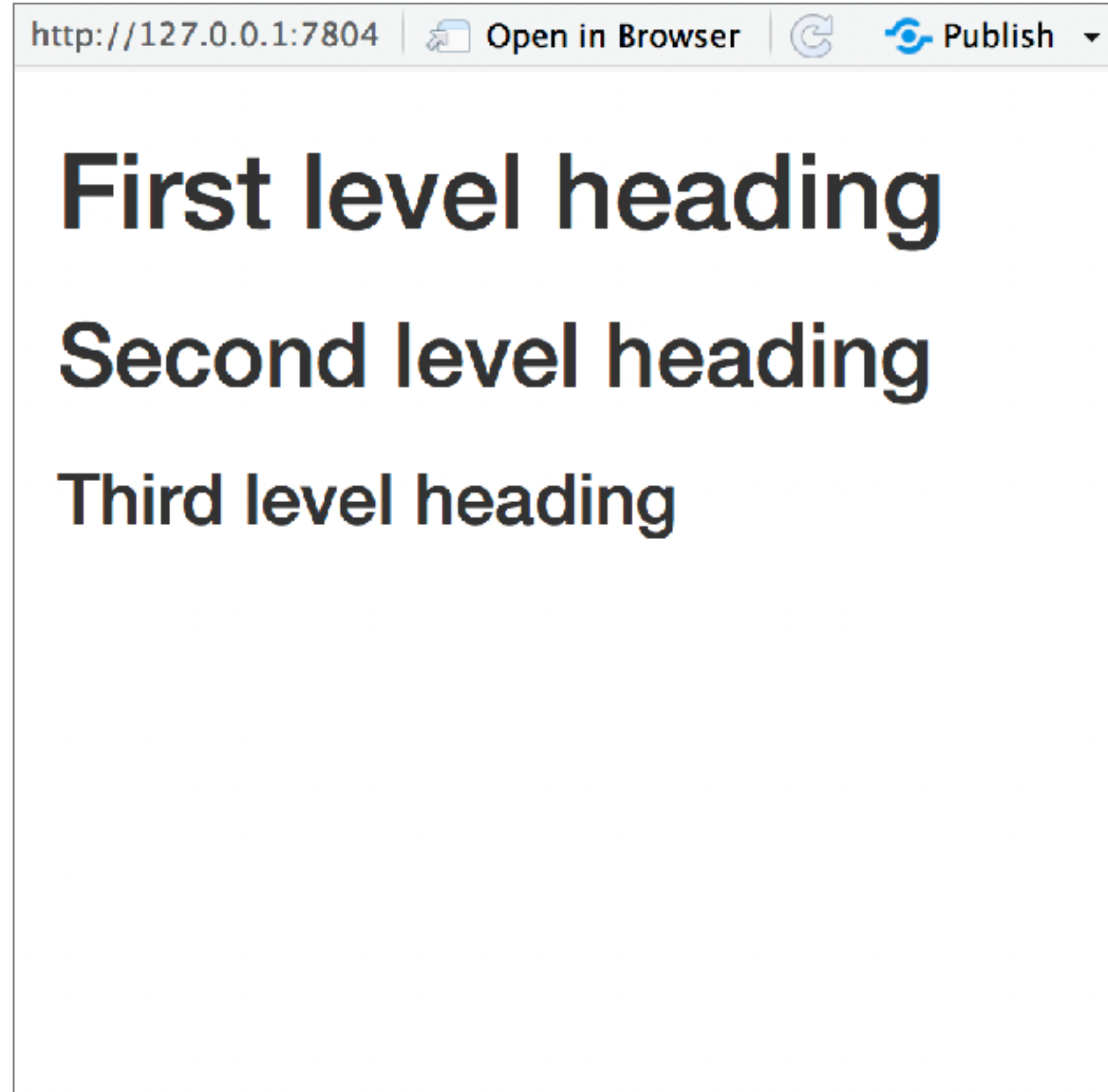
Header tags

```
library(shiny)

# Define UI with tags
ui <- fluidPage(
  tags$h1("First level heading"),
  tags$h2("Second level heading"),
  tags$h3("Third level heading")
)

# Define server fn that does nothing :)
server <- function(input, output) {}

# Create the app object
shinyApp(ui = ui, server = server)
```



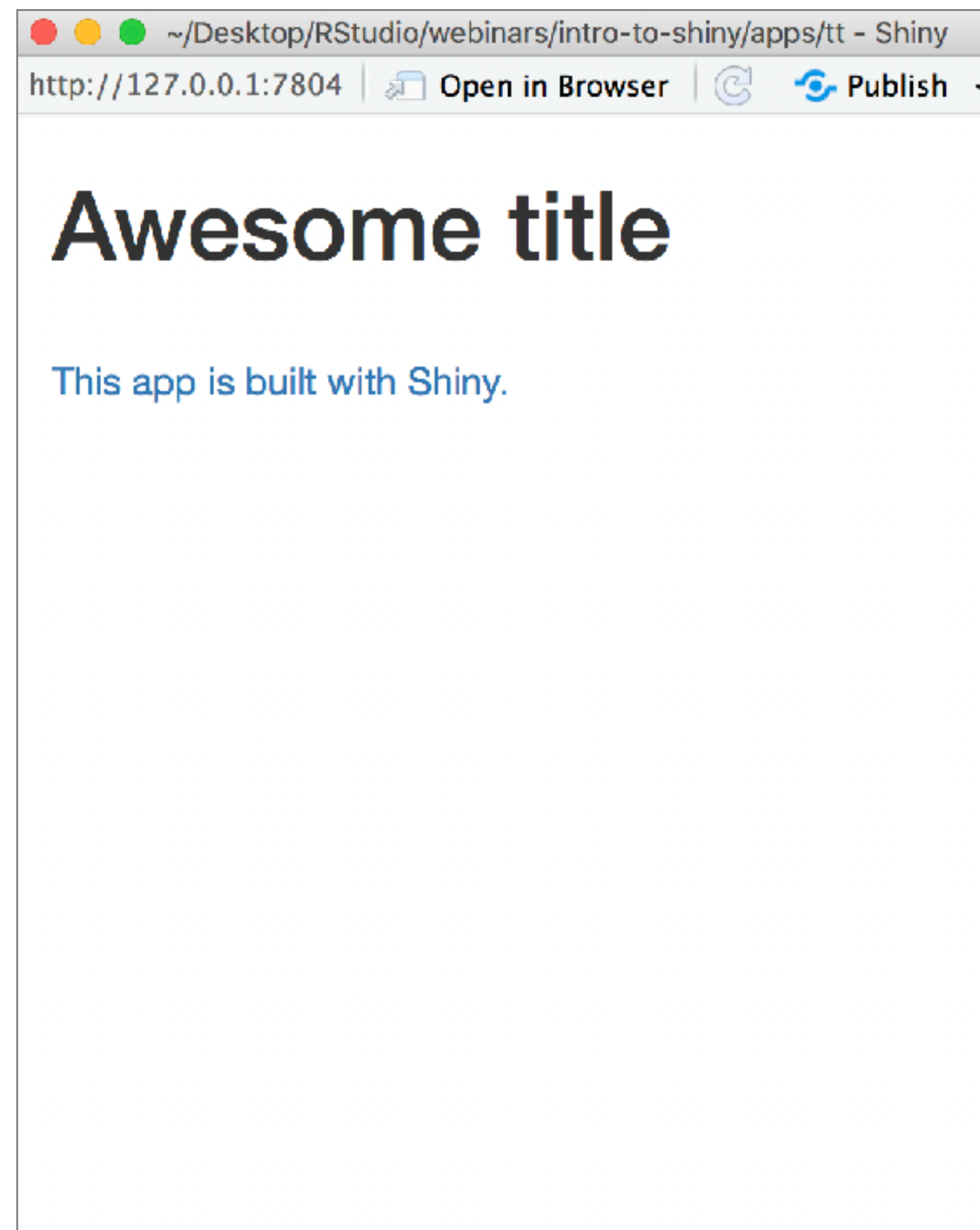
Linked text

```
library(shiny)

# Define UI with tags
ui <- fluidPage(
  tags$h1("Awesome title"),
  tags$br(), # line break
  tags$a("This app is built with
Shiny.", href = "http://
shiny.rstudio.com/")
)

# Define server fn that does nothing :)
server <- function(input, output) {}

# Create the app object
shinyApp(ui = ui, server = server)
```



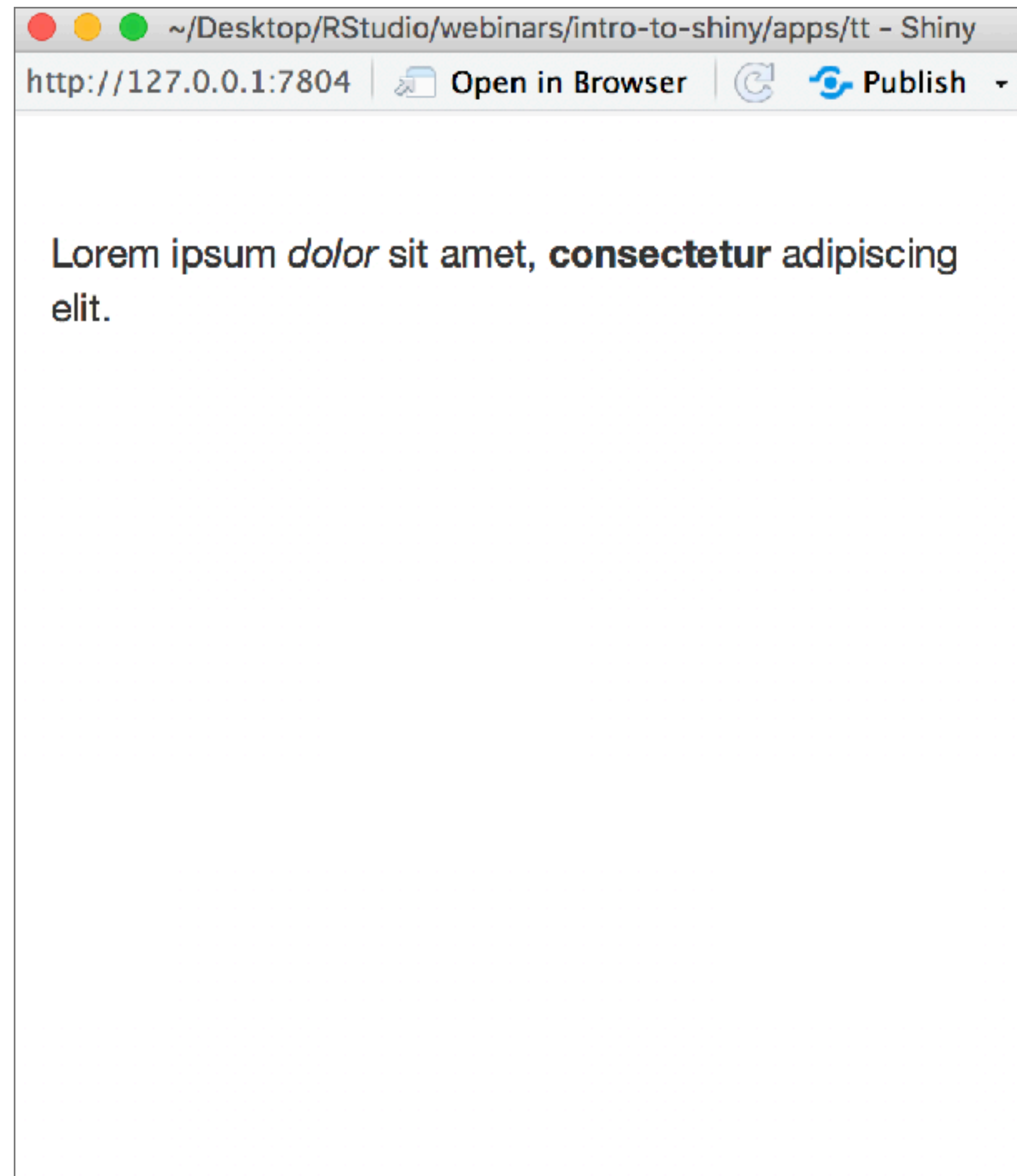
Nested tags

```
library(shiny)


# Define UI with tags
ui <- fluidPage(
  tags$p("Lorem ipsum",
    tags$em("dolor"), "sit amet,",
    tags$b("consectetur"),
    "adipiscing elit.")
)

# Define server fn that does nothing :)
server <- function(input, output) {}

# Create the app object
shinyApp(ui = ui, server = server)
```



Common tags

<code>tags\$p(...)</code>		<code>p(...)</code>
<code>tags\$h1(...)</code>		<code>h1(...)</code>
<code>tags\$h2(...)</code>		<code>h2(...)</code>
<code>tags\$h3(...)</code>		<code>h3(...)</code>
<code>tags\$h4(...)</code>		<code>h4(...)</code>
<code>tags\$h5(...)</code>		<code>h5(...)</code>
<code>tags\$h6(...)</code>		<code>h6(...)</code>
<code>tags\$a(...)</code>		<code>a(...)</code>
<code>tags\$br(...)</code>		<code>br(...)</code>
<code>tags\$div(...)</code>		<code>div(...)</code>
<code>tags\$span(...)</code>		<code>span(...)</code>
<code>tags\$pre(...)</code>		<code>pre(...)</code>
<code>tags\$code(...)</code>		<code>code(...)</code>
<code>tags\$img(...)</code>		<code>img(...)</code>
<code>tags\$strong(...)</code>		<code>strong(...)</code>
<code>tags\$em(...)</code>		<code>em(...)</code>
<code>tags\$hr(...)</code>		<code>hr(...)</code>

Common tags

```
> tags$a("Anchor text")  
<a>Anchor text</a>  
> a("Anchor text")  
<a>Anchor text</a>
```

```
> tags$br()  
<br/>  
> br()  
<br/>
```

```
> tags$code("Monospace text")  
<code>Monospace text</code>  
> code("Monospace text")  
<code>Monospace text</code>
```

```
> tags$h1("First level header")  
<h1>First level header</h1>  
> h1("First level header")  
<h1>First level header</h1>
```


HTML

```
> HTML("Hello world, <br/> and then a line break.")  
Hello world, <br/> and then a line break.
```



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Let's practice!