# Package 'shinybiocloader'

November 12, 2026

**Title** Use a Shiny Bioconductor CSS loader

**Version** 1.2.0

**Description** Add a Bioconductor themed CSS loader to your shiny app. It is based on the shinycustomloader R package. Use a spinning Bioconductor note loader to enhance your shiny app loading screen. This package is intended for developer use.

**Depends** htmltools

**Imports** shiny

**Suggests** shinydashboard, tinytest, quarto

**VignetteBuilder** quarto

**SystemRequirements** quarto

**biocViews** Software, Infrastructure, GUI

**License** Artistic-2.0

**BugReports** https://github.com/Bioconductor/shinybiocloader/issues

**URL** https://github.com/Bioconductor/shinybiocloader

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# Contents

withLoader . . . . . 2

**Index** **4**

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`withLoader` *Add a loader to a Shiny UI element*

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## Description

Add a loader to a Shiny UI element

## Usage

```
withLoader(ui_element, loader = "biocspin", proxy.height = "400px")
```

## Arguments

| | |
|---|---|
| `ui_element` | A Shiny UI element (e.g., `uiOutput`, `plotOutput`, etc.) for which to wrap with the loader. |
| `loader` | `character(1)` A string specifying the loader type. Default is "biocspin". |
| `proxy.height` | `character(1)` A string specifying the height of the proxy element. Default is "400px". If the `ui_element` already has a height specified, this will be set to "100%". |

## Value

A Shiny UI element wrapped with the Bioconductor loader

## References

`shinycustomloader` https://github.com/emitanaka/shinycustomloader
`dna spin` https://codepen.io/knut/pen/ZopMWW

## Examples

```
library(shiny)
library(shinydashboard)
library(shinybiocloader)

waitHist <- function() {
  waiting <- faithful[["waiting"]]
  Sys.sleep(3)  # Simulate loading
  hist(
    waiting, col = 'darkgray', border = 'white',
    main = 'Old Faithful Geyser Waiting Times Histogram',
    xlab = 'Waiting Time (min)'
  )
```

```
}

ui <- dashboardPage(
  dashboardHeader(title = "Bioconductor Loader"),
  dashboardSidebar(disable = TRUE),
  dashboardBody(
    h2("Bioconductor Spinning Loader"),
    HTML(
      paste0(
        "<pre><code class='language-r'>",
        "withLoader(plotOutput('distPlot'), loader='biocspin')",
        "</code></pre>"
      )
    ),
    fluidRow(
      box(
        title = "With Loader", status = "primary", solidHeader = TRUE,
        withLoader(plotOutput("distPlot"), loader = "biocspin")
      ),
      box(
        title = "Without Loader", status = "warning", solidHeader = TRUE,
        plotOutput("distPlot2")
      )
    )
  )
)

server <- function(input, output) {
  output$distPlot <- renderPlot(waitHist())
  output$distPlot2 <- renderPlot(waitHist())
}

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

# Index

withLoader, 2