

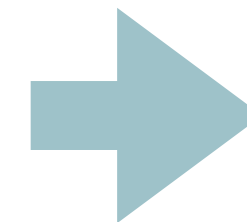
/shiny-modules

The solution to scalability

- Modules are *functions* they help you reuse code;
anything you can do with a function, you can do with a module
- Namespacing makes it easier

```
your_UI <- function(id, title, ...) {  
  ns <- NS(id)  
  fluidPage(  
    h4(title),  
  
    # shiny UI code here  
    # ...  
  )  
}
```

```
your_server <- function(id, dataset_location, ...) {  
  ns <- NS(id)  
  moduleServer(  
    id,  
    function(input, output, session) {  
      data <- shiny::reactive({  
        arrow::open_dataset(dataset_location)  
      })  
  
      output$pickerUI <- shiny::renderUI({  
        pickerInput(  
          inputId = ns("selected_grps"),  
          choices = unique(data()[["group"]])  
        )  
      })  
  
      output$plot_ts <- shiny::renderPlot({  
        data() |>  
        filter(group %in% input$selected_grps) |>  
        make_a_plot()  
      })  
    }  
  )  
}
```

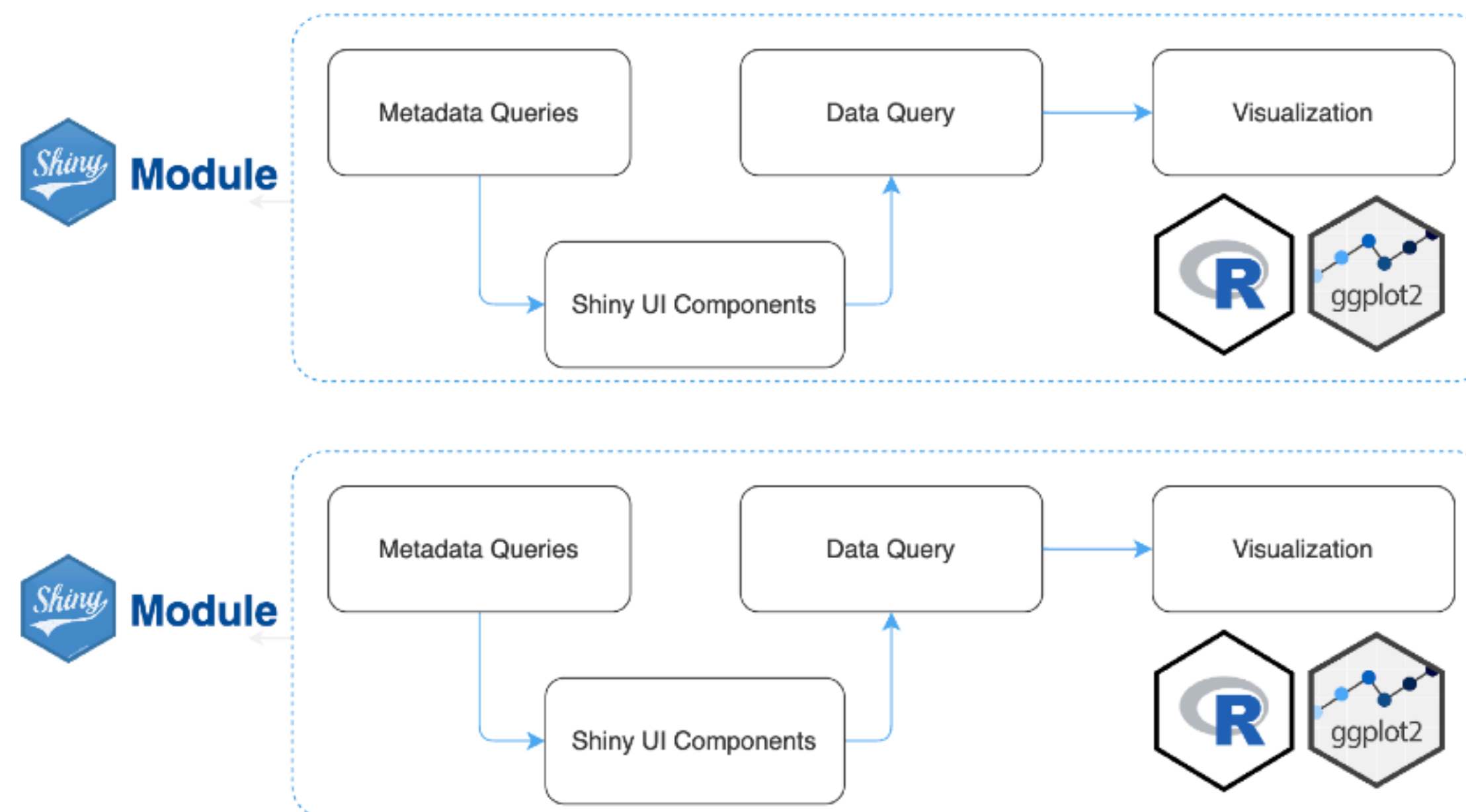


```
# app.R  
ui <- fluidPage(  
  your_UI("tab1"),  
  your_UI("tab2")  
)  
  
# Server ----  
server <- function(input, output, session) {  
  your_server("tab1")  
  your_server("tab2")  
}  
  
shinyApp(ui, server)
```

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