

Package ‘esquisse’

January 10, 2024

Type Package

Title Explore and Visualize Your Data Interactively

Version 1.2.0

Description A 'shiny' gadget to create 'ggplot2' figures interactively with drag-and-drop to map your variables to different aesthetics.

You can quickly visualize your data accordingly to their type, export in various formats, and retrieve the code to reproduce the plot.

URL <https://dreamrs.github.io/esquisse/>,
<https://github.com/dreamRs/esquisse>

BugReports <https://github.com/dreamRs/esquisse/issues>

License GPL-3 | file LICENSE

Encoding UTF-8

RoxygenNote 7.2.3

Imports bslib, datamods (>= 1.4.0), ggplot2 (>= 3.0.0), grDevices, htmltools (>= 0.5.0), jsonlite, phosphoricons, rlang (>= 0.3.1), rstudioapi, scales, shiny (>= 1.1.0), shinybusy, shinyWidgets (>= 0.6.0)

Suggests officer, rvg, rio, testthat (>= 2.1.0), knitr, rmarkdown, ggthemes, hrbrthemes

VignetteBuilder knitr

NeedsCompilation no

Author Fanny Meyer [aut],
Victor Perrier [aut, cre],
Ian Carroll [ctb] (Faceting support),
Xiangnan Dang [ctb] (Facets rows and cols, X/Y limits),
Nicolas Bevacqua [cph] (author of dragula JavaScript library),
Daybrush (Younkue Choi) [cph] (author of moveable JavaScript library),
Zeno Rocha [cph] (author of clipboard JavaScript library)

Maintainer Victor Perrier <victor.perrier@dreamrs.fr>

Repository CRAN

Date/Publication 2024-01-10 15:23:03 UTC

R topics documented:

build_aes	2
dragulaInput	3
dropInput	6
esquisse	8
esquisse-deprecated	9
esquisse-exports	9
esquisse-module	10
esquisser	14
esquisserServer	15
ggcall	16
ggplot-output	19
ggplot_to_ppt	21
input-colors	22
match_geom_args	27
module-chooseData	28
module-coerce	30
module-filterDF	30
potential_geoms	31
run_module	32
safe_ggplot	33
save-ggplot-module	34
updateDragulaInput	35
updateDropInput	37
which_pal_scale	39
Index	42

build_aes	<i>Build aesthetics to use in a plot</i>
-----------	--

Description

Build aesthetics to use in a plot

Usage

```
build_aes(data, ..., .list = NULL, geom = NULL)
```

Arguments

data	Data to use in the plot.
...	Named list of aesthetics.
.list	Alternative to ... to use a preexisting named list.
geom	Geom to use, according to the geom aesthetics may vary.

Value

An expression

Examples

```
# Classic
build_aes(iris, x = "Sepal.Width")
build_aes(iris, x = "Sepal.Width", y = "Sepal.Width")

# Explicit geom : no change
build_aes(iris, x = "Species", geom = "bar")

# Little trick if data is count data
df <- data.frame(
  LET = c("A", "B"),
  VAL = c(4, 7)
)
build_aes(df, x = "LET", y = "VAL", geom = "bar")

# e.g. :
library(ggplot2)
ggplot(df) +
  build_aes(df, x = "LET", y = "VAL", geom = "bar") +
  geom_bar()
```

dragulaInput

Drag And Drop Input Widget

Description

Drag And Drop Input Widget

Usage

```
dragulaInput(
  inputId,
  label = NULL,
  sourceLabel,
  targetsLabels,
  targetsIds = NULL,
  choices = NULL,
  choiceNames = NULL,
  choiceValues = NULL,
  selected = NULL,
  status = "primary",
  replace = FALSE,
  copySource = TRUE,
  badge = TRUE,
```

```

    ncolSource = "auto",
    ncolGrid = NULL,
    dragulaOpts = list(),
    boxStyle = NULL,
    width = NULL,
    height = "100px"
  )

```

Arguments

<code>inputId</code>	The input slot that will be used to access the value.
<code>label</code>	Display label for the control, or NULL for no label.
<code>sourceLabel</code>	Label display in the source box
<code>targetsLabels</code>	Labels for each target element.
<code>targetsIds</code>	Ids for retrieving values server-side, if NULL, the default, <code>targetsLabels</code> are used after removing all not-alphanumeric characters.
<code>choices</code>	List of values to select from (if elements of the list are named then that name rather than the value is displayed to the user). If this argument is provided, then <code>choiceNames</code> and <code>choiceValues</code> must not be provided, and vice-versa. The values should be strings; other types (such as logicals and numbers) will be coerced to strings.
<code>choiceNames, choiceValues</code>	List of names and values, respectively, that are displayed to the user in the app and correspond to the each choice (for this reason, <code>choiceNames</code> and <code>choiceValues</code> must have the same length). If either of these arguments is provided, then the other must be provided and <code>choices</code> must not be provided. The advantage of using both of these over a named list for choices is that <code>choiceNames</code> allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text.
<code>selected</code>	Default selected values. Must be a list with <code>targetsIds</code> as names.
<code>status</code>	If choices are displayed into a Bootstrap label, you can use Bootstrap status to color them, or NULL.
<code>replace</code>	When a choice is dragged in a target container already containing a choice, does the later be replaced by the new one ?
<code>copySource</code>	When <code>replace = TRUE</code> , does elements in source must be copied or moved ?
<code>badge</code>	Displays choices inside a Bootstrap badge. Use FALSE if you want to pass custom appearance with <code>choiceNames</code> .
<code>ncolSource</code>	Number of columns occupied by the source, default is "auto", meaning full row.
<code>ncolGrid</code>	Number of columns used to place source and targets boxes, see examples.
<code>dragulaOpts</code>	Options passed to dragula JavaScript library (see online documentation on GitHub). Note that options <code>moves</code> , <code>accepts</code> and <code>invalid</code> must be valid JavaScript code as they are evaluated on the client.
<code>boxStyle</code>	CSS style string to customize source and target container.
<code>width</code>	Width of the input.
<code>height</code>	Height of each boxes, the total input height is this parameter X 2.

Value

a UI definition

Note

The output server-side is a list with two slots: source and targets.

See Also

[updateDragulaInput\(\)](#) to update choices server-side.

Examples

```
library(shiny)
library(esquisse)

ui <- fluidPage(
  tags$h2("Demo dragulaInput"),
  tags$br(),
  fluidRow(
    column(
      width = 6,

      dragulaInput(
        inputId = "dad1",
        label = "Default:",
        sourceLabel = "Source",
        targetsLabels = c("Target 1", "Target 2"),
        choices = month.abb,
        width = "100%"
      ),
      verbatimTextOutput(outputId = "result1"),

      tags$br(),

      dragulaInput(
        inputId = "dad3",
        label = "On same row:",
        sourceLabel = "Source",
        targetsLabels = c("Target 1", "Target 2"),
        choices = month.abb,
        width = "100%",
        ncolSource = 1,
        ncolGrid = 3
      ),
      verbatimTextOutput(outputId = "result3")
    ),

    column(
      width = 6,
      dragulaInput(
        inputId = "dad2",
```

```

      label = "Two rows:",
      sourceLabel = "Source",
      targetsLabels = c("x", "y", "color", "fill", "size", "facet"),
      choices = names(mtcars),
      width = "100%",
      ncolGrid = 3
    ),
    verbatimTextOutput(outputId = "result2"),

    tags$br(),

    dragulaInput(
      inputId = "dad4",
      label = "Two rows not filled:",
      sourceLabel = "Source",
      targetsLabels = c("x", "y", "color", "fill", "size"),
      choices = names(mtcars),
      width = "100%",
      ncolGrid = 3
    ),
    verbatimTextOutput(outputId = "result4")
  )
)
)

server <- function(input, output, session) {

  output$result1 <- renderPrint(str(input$dad1))

  output$result2 <- renderPrint(str(input$dad2))

  output$result3 <- renderPrint(str(input$dad3))

  output$result4 <- renderPrint(str(input$dad4))

}

if (interactive())
  shinyApp(ui = ui, server = server)

```

 dropInput

Dropdown Input

Description

A dropdown menu for selecting a value.

Usage

```
dropInput(  
  inputId,  
  choicesNames,  
  choicesValues,  
  selected = NULL,  
  dropUp = FALSE,  
  dropWidth = NULL,  
  dropMaxHeight = NULL,  
  dropPreScrollable = FALSE,  
  btnClass = "btn-link",  
  width = NULL  
)
```

Arguments

inputId	The input slot that will be used to access the value.
choicesNames	A tagList of HTML tags to show in the dropdown menu.
choicesValues	Vector corresponding to choicesNames for retrieving values server-side.
selected	The initial selected value, must be an element of choicesValues, default to the first item of choicesValues.
dropUp	Open the menu above the button rather than below.
dropWidth	Width of the dropdown menu.
dropMaxHeight	Maximal height for the menu.
dropPreScrollable	Force scroll bar to appear in the menu.
btnClass	Class for buttons in dropdown menu, default is "btn-link", you can use for example "btn-default" to display regular buttons.
width	The width of the input.

See Also

[updateDropInput](#)

Examples

```
if (interactive()) {  
  
  library(shiny)  
  library(esquisse)  
  
  ui <- fluidPage(  
    tags$h2("Drop Input"),  
    dropInput(  
      inputId = "mydrop",  
      choicesNames = tagList(  
        list(icon("home"), style = "width: 100px;"),
```

```
      list(icon("flash"), style = "width: 100px;"),
      list(icon("cogs"), style = "width: 100px;"),
      list(icon("fire"), style = "width: 100px;"),
      list(icon("users"), style = "width: 100px;"),
      list(icon("info"), style = "width: 100px;")
    ),
    choicesValues = c("home", "flash", "cogs",
                     "fire", "users", "info"),
    dropWidth = "220px"
  ),
  verbatimTextOutput(outputId = "res")
)

server <- function(input, output, session) {
  output$res <- renderPrint({
    input$mydrop
  })
}

shinyApp(ui, server)
}
```

esquisse

Explore and Visualize Your Data Interactively

Description

A 'shiny' gadget to create 'ggplot2' figures interactively with drag-and-drop to map your variables to different aesthetics. You can quickly visualize your data accordingly to their type, export in various formats, and retrieve the code to reproduce the plot.

Author(s)

Fanny Meyer & Victor Perrier (@dreamRs_fr)

See Also

Useful links:

- <https://dreamrs.github.io/esquisse/>
- <https://github.com/dreamRs/esquisse>
- Report bugs at <https://github.com/dreamRs/esquisse/issues>

Examples

```
## Not run:  
  
esquisser()  
  
# launch esquisse with specific data:  
esquisser(mtcars)  
  
## End(Not run)
```

esquisse-deprecated *Deprecated functions*

Description

Deprecated functions

Note

The following functions are deprecated and will be removed in next release:

- `esquisserUI / esquisserServer`: replaced by `esquisse_ui / esquisse_server`
- `filterDF_UI / filterDF`: moved to package `datamods`
- `chooseDataUI / chooseDataServer`: moved to package `datamods`
- `coerceUI / coerceServer`: moved to package `datamods`

esquisse-exports *esquisse exported operators and S3 methods*

Description

esquisse exported operators and S3 methods

esquisse-module *Esquisse module*

Description

Use `esquisse` as a module in a Shiny application.

Usage

```

esquisse_ui(
  id,
  header = TRUE,
  container = esquisseContainer(),
  controls = c("labs", "parameters", "appearance", "filters", "code"),
  insert_code = FALSE,
  play_pause = TRUE,
  downloads = downloads_labels()
)

esquisse_server(
  id,
  data_rv = NULL,
  name = "data",
  default_aes = c("fill", "color", "size", "group", "facet"),
  import_from = c("env", "file", "coppypaste", "googlesheets", "url"),
  drop_ids = TRUE,
  notify_warnings = NULL
)

esquisseContainer(width = "100%", height = "700px", fixed = FALSE)

```

Arguments

<code>id</code>	Module ID.
<code>header</code>	Either TRUE or FALSE to display or not <code>esquisse</code> header, or a named list where names are <code>: settings</code> , <code>close</code> , <code>import</code> and <code>show_data</code> and values are TRUE or FALSE to display or not the corresponding button.
<code>container</code>	Container in which display the addin, default is to use <code>esquisseContainer</code> , see examples. Use NULL for no container (behavior in versions $\leq 0.2.1$). Must be a function.
<code>controls</code>	Controls menu to be displayed. Use NULL to hide all menus.
<code>insert_code</code>	Logical, Display or not a button to insert the <code>ggplot</code> code in the current user script (work only in RStudio).
<code>play_pause</code>	Display or not the play / pause button.
<code>downloads</code>	Export options available or NULL for no export. See downloads_labels() .

data_rv	Either: <ul style="list-style-type: none"> • A <code>shiny::reactiveValues()</code> with a slot <code>data</code> containing a <code>data.frame</code> to use in the module and a slot name corresponding to the name of the <code>data.frame</code> used for the generated code. • A <code>shiny::reactive()</code> function returning a <code>data.frame</code>. See argument <code>name</code> for the name used in generated code. • A <code>data.frame</code> object.
name	The default name to use in generated code. Can be a reactive function return a single character.
default_aes	Default aesthetics to be used, can be a character vector or reactive function returning one.
import_from	From where to import data, argument passed to <code>datamods::import_server()</code> , use <code>NULL</code> to prevent the modal to appear.
drop_ids	Argument passed to <code>datamods::filter_data_server</code> . Drop columns containing more than 90% of unique values, or than 50 distinct values.
notify_warnings	See <code>safe_ggplot()</code> . If <code>NULL</code> , the user can make his or her own choice via the settings menu, default is to show warnings once.
width, height	The width and height of the container, e.g. "400px", or "100%"; see <code>validateCssUnit</code> .
fixed	Use a fixed container, e.g. to use use <code>esquisse</code> full page. If <code>TRUE</code> , width and height are ignored. Default to <code>FALSE</code> . It's possible to use a vector of CSS unit of length 4 to specify the margins (top, right, bottom, left).

Value

A `reactiveValues` with 3 slots :

- **code_plot** : code to generate plot.
- **code_filters** : a list of length two with code to reproduce filters.
- **data** : `data.frame` used in plot (with filters applied).

Examples

```
### Part of a Shiny app ###

library(shiny)
library(esquisse)

ui <- fluidPage(
  tags$h1("Use esquisse as a Shiny module"),

  radioButtons(
    inputId = "data",
    label = "Data to use:",
    choices = c("iris", "mtcars"),
    inline = TRUE
```

```

),
checkboxGroupInput(
  inputId = "aes",
  label = "Aesthetics to use:",
  choices = c(
    "fill", "color", "size", "shape",
    "weight", "group", "facet", "facet_row", "facet_col"
  ),
  selected = c("fill", "color", "size", "facet"),
  inline = TRUE
),
esquisse_ui(
  id = "esquisse",
  header = FALSE, # dont display gadget title
  container = esquisseContainer(height = "700px")
)
)

server <- function(input, output, session) {

  data_rv <- reactiveValues(data = iris, name = "iris")

  observeEvent(input$data, {
    if (input$data == "iris") {
      data_rv$data <- iris
      data_rv$name <- "iris"
    } else {
      data_rv$data <- mtcars
      data_rv$name <- "mtcars"
    }
  })

  esquisse_server(
    id = "esquisse",
    data_rv = data_rv,
    default_aes = reactive(input$aes)
  )
}

if (interactive())
  shinyApp(ui, server)

### Whole Shiny app ###

library(shiny)
library(esquisse)

# Load some datasets in app environment
my_data <- data.frame(
  var1 = rnorm(100),

```

```

    var2 = sample(letters[1:5], 100, TRUE)
  )

  ui <- fluidPage(
    esquisse_ui(
      id = "esquisse",
      header = list(close = FALSE), # hide the close button
      container = esquisseContainer(fixed = TRUE),
      play_pause = FALSE
    )
  )

  server <- function(input, output, session) {

    esquisse_server(id = "esquisse")

  }

  if (interactive())
    shinyApp(ui, server)

## You can also use a vector of margins for the fixed argument,
## useful if you have a navbar for example

library(shiny)
library(esquisse)
library(datamods)

ui <- navbarPage(
  title = "My navbar app",
  tabPanel(
    title = "esquisse",
    esquisse_ui(
      id = "esquisse",
      header = FALSE,
      container = esquisseContainer(
        fixed = c(55, 0, 0, 0)
      )
    )
  )
)

server <- function(input, output, session) {

  # lauch import data modal
  import_modal(
    id = "import-data",
    from = c("env", "file", "copypaste"),
    title = "Import data"
  )
}

```

```

data_imported_r <- datamods::import_server("import-data")

data_rv <- reactiveValues(data = data.frame())
observeEvent(data_imported_r$data(), {
  data_rv$data <- data_imported_r$data()
  data_rv$name <- data_imported_r$name()
})

esquisse_server(id = "esquisse", data_rv = data_rv)

}

if (interactive())
  shinyApp(ui, server)

```

 esquisser

An add-in to easily create plots with ggplot2

Description

Select data to be used and map variables to aesthetics to produce a chart, customize common elements and get code to reproduce the chart.

Usage

```

esquisser(
  data = NULL,
  controls = c("labs", "parameters", "appearance", "filters", "code"),
  viewer = getOption(x = "esquisse.viewer", default = "dialog")
)

```

Arguments

data	a <code>data.frame</code> , you can pass a <code>data.frame</code> explicitly to the function, otherwise you'll have to choose one in global environment.
controls	Controls menu to be displayed. Use <code>NULL</code> to hide all menus.
viewer	Where to display the gadget: "dialog", "pane" or "browser" (see viewer).

Value

`NULL`. You can view code used to produce the chart, copy it or insert it in current script.

Examples

```

if (interactive()) {
  # Launch with :
  esquisser(iris)
  # If in RStudio it will be launched by default in dialog window
}

```

```
# If not, it will be launched in browser

# Launch esquisse in browser :
esquisser(iris, viewer = "browser")

# You can set this option in .Rprofile :
options("esquisse.viewer" = "viewer")
# or
options("esquisse.viewer" = "browser")

# esquisse use shiny::runApp
# see ?shiny::runApp to see options
# available, example to use custom port:

options("shiny.port" = 8080)
esquisser(iris, viewer = "browser")

}
```

esquisserServer

Esquisse Shiny module

Description

DEPRECATED, see [esquisse-module](#).

Usage

```
esquisserServer(
  input,
  output,
  session,
  data = NULL,
  dataModule = c("GlobalEnv", "ImportFile"),
  sizeDataModule = "m"
)

esquisserUI(
  id,
  header = TRUE,
  container = esquisseContainer(),
  choose_data = TRUE,
  insert_code = FALSE,
  disable_filters = FALSE
)
```

Arguments

input, output, session	Standards shiny server arguments.
data	A reactiveValues with at least a slot data containing a data.frame to use in the module. And a slot name corresponding to the name of the data.frame.
dataModule	Data module to use, choose between "GlobalEnv" or "ImportFile".
sizeDataModule	Size for the modal window for selecting data.
id	Module's id.
header	Logical. Display or not esquisse header.
container	Container in which display the addin, default is to use esquisseContainer, see examples. Use NULL for no container (behavior in versions <= 0.2.1). Must be a function.
choose_data	Logical. Display or not the button to choose data.
insert_code	Logical, Display or not a button to insert the ggplot code in the current user script (work only in RStudio).
disable_filters	Logical. Disable the menu allowing to filter data used.

Value

A reactiveValues with 3 slots :

- **code_plot** : code to generate plot.
- **code_filters** : a list of length two with code to reproduce filters.
- **data** : data.frame used in plot (with filters applied).

Note

For the module to display correctly, it is necessary to place it in a container with a fixed height. Since version >= 0.2.2, the container is added by default.

ggcall

Generate code to create a ggplot2

Description

Generate code to create a ggplot2

Usage

```
ggcall(  
  data = NULL,  
  mapping = NULL,  
  geom = NULL,  
  geom_args = list(),  
  scales = NULL,  
  scales_args = list(),  
  coord = NULL,  
  labs = list(),  
  theme = NULL,  
  theme_args = list(),  
  facet = NULL,  
  facet_row = NULL,  
  facet_col = NULL,  
  facet_args = list(),  
  xlim = NULL,  
  ylim = NULL  
)
```

Arguments

<code>data</code>	Character. Name of the data frame.
<code>mapping</code>	List. Named list of aesthetics.
<code>geom</code>	Character. Name of the geom to use (with or without "geom_").
<code>geom_args</code>	List. Arguments to use in the geom.
<code>scales</code>	Character vector. Scale(s) to use (with or without "scale_").
<code>scales_args</code>	List. Arguments to use in scale(s), if <code>scales</code> is length > 1, must be a named list with scales names.
<code>coord</code>	Character. Coordinates to use (with or without "coord_").
<code>labs</code>	List. Named list of labels to use for title, subtitle, x & y axis, legends.
<code>theme</code>	Character. Name of the theme to use (with or without "theme_").
<code>theme_args</code>	Named list. Arguments for theme .
<code>facet</code>	Character vector. Names of variables to use in facet_wrap .
<code>facet_row</code>	Character vector. Names of row variables to use in facet_grid .
<code>facet_col</code>	Character vector. Names of col variables to use in facet_grid .
<code>facet_args</code>	Named list. Arguments for facet_wrap .
<code>xlim</code>	A vector of length 2 representing limits on x-axis.
<code>ylim</code>	A vector of length 2 representing limits on y-axis.

Value

a call that can be evaluated with `eval`.

Examples

```
# Default:
ggcall()

# With data and aes
ggcall("mtcars", list(x = "mpg", y = "wt"))

# Evaluate the call
library(ggplot2)
eval(ggcall("mtcars", list(x = "mpg", y = "wt")))

# With a geom:
ggcall(
  data = "mtcars",
  mapping = list(x = "mpg", y = "wt"),
  geom = "point"
)

# With options
ggcall(
  data = "mtcars",
  mapping = list(x = "hp", y = "cyl", fill = "color"),
  geom = "bar",
  coord = "flip",
  labs = list(title = "My title"),
  theme = "minimal",
  facet = c("gear", "carb"),
  theme_args = list(legend.position = "bottom")
)

# Theme
ggcall(
  "mtcars", list(x = "mpg", y = "wt"),
  theme = "theme_minimal",
  theme_args = list(
    panel.ontop = TRUE,
    legend.title = rlang::expr(element_text(face = "bold"))
  )
)

# Theme from other package than ggplot2
ggcall(
  "mtcars", list(x = "mpg", y = "wt"),
  theme = "ggthemes::theme_economist"
)

# One scale
ggcall(
  data = "mtcars",
  mapping = list(x = "mpg", y = "wt", color = "qsec"),
```

```
    geom = "point",
    scales = "color_distiller",
    scales_args = list(palette = "Blues")
  )

# Two scales
ggcall(
  data = "mtcars",
  mapping = list(x = "mpg", y = "wt", color = "qsec", size = "qsec"),
  geom = "point",
  scales = c("color_distiller", "size_continuous"),
  scales_args = list(
    color_distiller = list(palette = "Greens"),
    size_continuous = list(range = c(1, 20))
  )
)
```

ggplot-output

Render ggplot module

Description

Display a plot on the client and allow to download it.

Usage

```
ggplot_output(
  id,
  width = "100%",
  height = "400px",
  downloads = downloads_labels(),
  ...
)

downloads_labels(
  label = ph("download-simple"),
  png = tagList(ph("image"), "PNG"),
  pdf = tagList(ph("file-pdf"), "PDF"),
  svg = tagList(ph("browsers"), "SVG"),
  jpeg = tagList(ph("image"), "JPEG"),
  pptx = tagList(ph("projector-screen"), "PPTX"),
  more = tagList(ph("gear"), i18n("More options"))
)

render_ggplot(
  id,
  expr,
  ...,
```

```

  env = parent.frame(),
  quoted = FALSE,
  filename = "export-ggplot"
)

```

Arguments

<code>id</code>	Module ID.
<code>width</code>	Width of the plot.
<code>height</code>	Height of the plot.
<code>downloads</code>	Labels for export options, use <code>downloads_labels()</code> or <code>NULL</code> to disable export options.
<code>...</code>	Parameters passed to <code>shiny::plotOutput()</code> (<code>ggplot_output</code>) or <code>shiny::renderPlot()</code> (<code>render_ggplot</code>).
<code>label</code>	Main label for export button
<code>png, pdf, svg, jpeg, pptx</code>	Labels to display in export menu, use <code>NULL</code> to disable specific format.
<code>more</code>	Label for "more" button, allowing to launch export modal.
<code>expr</code>	An expression that generates a <code>ggplot</code> object.
<code>env</code>	The environment in which to evaluate expression.
<code>quoted</code>	Is <code>expr</code> a quoted expression (with <code>quote()</code>)? This is useful if you want to save an expression in a variable.
<code>filename</code>	A string of the filename to export WITHOUT extension, it will be added according to type of export.

Value

Server-side, a `reactiveValues` with the plot.

Examples

```

library(shiny)
library(ggplot2)
library(esquisse)

ui <- fluidPage(
  tags$h2("ggplot output"),
  selectInput("var", "Variable:", names(economics)[-1]),
  ggplot_output("MYID", width = "600px")
)

server <- function(input, output, session) {

  render_ggplot("MYID", {
    ggplot(economics) +

```

```

    geom_line(aes(date, !!sym(input$var))) +
    theme_minimal() +
    labs(
      title = "A cool chart made with ggplot2",
      subtitle = "that you can export in various format"
    )
  })
}

if (interactive())
  shinyApp(ui, server)

```

ggplot_to_ppt

Utility to export ggplot objects to PowerPoint

Description

You can use the RStudio addin to interactively select ggplot objects, or directly pass their names to the function.

Usage

```
ggplot_to_ppt(gg = NULL)
```

Arguments

gg character. Name(s) of ggplot object(s), if NULL, launch the Shiny gadget.

Value

Path to the temporary PowerPoint file.

Examples

```

# Shiny gadget
if (interactive()) {

  ggplot_to_ppt()

  # Or with an object's name
  library(ggplot2)
  p <- ggplot(iris) +
    geom_point(aes(Sepal.Length, Sepal.Width))

  ggplot_to_ppt("p")

}

```

`input-colors`*Picker input to select color(s) or palette*

Description

Select menu to view and choose a color or a palette of colors.

Usage

```
colorPicker(  
  inputId,  
  label,  
  choices,  
  selected = NULL,  
  textColor = "#000",  
  plainColor = FALSE,  
  multiple = FALSE,  
  pickerOpts = list(),  
  width = NULL  
)  
  
updateColorPicker(  
  session = getDefaultReactiveDomain(),  
  inputId,  
  choices,  
  textColor = "#000",  
  plainColor = FALSE,  
  multiple = FALSE  
)  
  
palettePicker(  
  inputId,  
  label,  
  choices,  
  selected = NULL,  
  textColor = "#000",  
  plainColor = FALSE,  
  pickerOpts = list(),  
  width = NULL  
)  
  
updatePalettePicker(  
  session = getDefaultReactiveDomain(),  
  inputId,  
  choices,  
  selected = NULL,  
  textColor = "#000",
```

```
    plainColor = FALSE
  )
```

Arguments

inputId	The input slot that will be used to access the value.
label	Display label for the control, or NULL for no label.
choices	List of values to select from. Values must be valid Hex colors. If elements of the list are named then that name rather than the value is displayed to the user.
selected	The initially selected value (or multiple values if <code>multiple = TRUE</code>). If not specified then defaults to the first value for single-select lists and no values for multiple select lists.
textColor	Color of the text displayed above colors, can be a vector of the same length as choices.
plainColor	Color the full space of the choice menu.
multiple	Is selection of multiple items allowed?
pickerOpts	Options for pickerInput .
width	The width of the input: 'auto', 'fit', '100px', '75%'.
session	Shiny session.

Value

A select control that can be added to a UI definition.

Examples

```
# colorPicker -----
library(shiny)
library(esquisse)
library(scales)

ui <- fluidPage(
  tags$h2("colorPicker examples"),
  fluidRow(
    column(
      width = 3,
      colorPicker(
        inputId = "col1",
        label = "With a vector of colors:",
        choices = brewer_pal(palette = "Dark2")(8)
      ),
      verbatimTextOutput("res1"),
      colorPicker(
        inputId = "col5",
        label = "Update colors:",
```

```

      choices = brewer_pal(palette = "Blues", direction = -1)(8),
      textColor = "#FFF"
    ),
    verbatimTextOutput("res5"),
    radioButtons(
      "update", "Colors", c("Blues", "Greens", "Reds"),
      inline = TRUE
    )
  ),
  column(
    width = 3,
    colorPicker(
      inputId = "col2",
      label = "Change text color:",
      choices = brewer_pal(palette = "Blues")(8),
      textColor = c("black", "black", "black", "white",
                    "white", "white", "white", "white")
    ),
    verbatimTextOutput("res2")
  ),
  column(
    width = 3,
    colorPicker(
      inputId = "col3",
      label = "With a list of vector of colors:",
      choices = list(
        "Blues" = brewer_pal(palette = "Blues")(8),
        "Reds" = brewer_pal(palette = "Reds")(8),
        "Greens" = brewer_pal(palette = "Greens")(8)
      )
    ),
    verbatimTextOutput("res3")
  ),
  column(
    width = 3,
    colorPicker(
      inputId = "col4",
      label = "Plain color & multiple choices:",
      choices = brewer_pal(palette = "Paired")(8),
      plainColor = TRUE,
      multiple = TRUE,
      pickerOpts = list(`selected-text-format` = "count > 3")
    ),
    verbatimTextOutput("res4")
  )
)
)
)

server <- function(input, output, session) {

  output$res1 <- renderPrint(input$col1)
  output$res2 <- renderPrint(input$col2)
  output$res3 <- renderPrint(input$col3)

```



```

output$res4 <- renderPrint(input$col4)
output$res5 <- renderPrint(input$col5)

observeEvent(input$update, {
  updateColorPicker(
    inputId = "col5",
    choices = brewer_pal(palette = input$update, direction = -1)(8),
    textColor = "#FFF"
  )
})
}

if (interactive()) {
  shinyApp(ui, server)
}

# palettePicker -----

library(shiny)
library(esquisse)
library(scales)

ui <- fluidPage(
  tags$h2("pickerColor examples"),

  fluidRow(
    column(
      width = 4,
      palettePicker(
        inputId = "pal1",
        label = "Select a palette:",
        choices = list(
          "Blues" = brewer_pal(palette = "Blues")(8),
          "Reds" = brewer_pal(palette = "Reds")(8)
        )
      ),
    ),
    verbatimTextOutput("res1"),
    palettePicker(
      inputId = "pal4",
      label = "Update palette:",
      choices = list(
        "Blues" = brewer_pal(palette = "Blues")(8),
        "Reds" = brewer_pal(palette = "Reds")(8)
      )
    ),
    verbatimTextOutput("res4"),
    radioButtons(
      "update", "Palettes:", c("default", "viridis", "brewer"),
      inline = TRUE
    )
  ),
  column(

```

```

width = 4,
palettePicker(
  inputId = "pal2",
  label = "With a list of palette:",
  choices = list(
    "Viridis" = list(
      "viridis" = viridis_pal(option = "viridis")(10),
      "magma" = viridis_pal(option = "magma")(10),
      "inferno" = viridis_pal(option = "inferno")(10),
      "plasma" = viridis_pal(option = "plasma")(10),
      "cividis" = viridis_pal(option = "cividis")(10)
    ),
    "Brewer" = list(
      "Blues" = brewer_pal(palette = "Blues")(8),
      "Reds" = brewer_pal(palette = "Reds")(8),
      "Paired" = brewer_pal(palette = "Paired")(8),
      "Set1" = brewer_pal(palette = "Set1")(8)
    )
  ),
  textColor = c(
    rep("white", 5), rep("black", 4)
  )
),
verbatimTextOutput("res2")
),
column(
  width = 4,
  palettePicker(
    inputId = "pal3",
    label = "With plain colors:",
    choices = list(
      "BrBG" = brewer_pal(palette = "BrBG")(8),
      "PiYG" = brewer_pal(palette = "PiYG")(8),
      "PRGn" = brewer_pal(palette = "PRGn")(8),
      "PuOr" = brewer_pal(palette = "PuOr")(8),
      "RdBu" = brewer_pal(palette = "RdBu")(8),
      "RdGy" = brewer_pal(palette = "RdGy")(8),
      "RdYlBu" = brewer_pal(palette = "RdYlBu")(8),
      "RdYlGn" = brewer_pal(palette = "RdYlGn")(8),
      "Spectral" = brewer_pal(palette = "Spectral")(8)
    ),
    plainColor = TRUE,
    textColor = "white"
  ),
  verbatimTextOutput("res3")
)
)
)

server <- function(input, output, session) {

  output$res1 <- renderPrint(input$pal1)
  output$res2 <- renderPrint(input$pal2)

```

```

output$res3 <- renderPrint(input$pal3)
output$res4 <- renderPrint(input$pal4)

observeEvent(input$update, {
  if (input$update == "default") {
    updatePalettePicker(
      inputId = "pal4",
      choices = list(
        "Blues" = brewer_pal(palette = "Blues")(8),
        "Reds" = brewer_pal(palette = "Reds")(8)
      )
    )
  } else if (input$update == "viridis") {
    updatePalettePicker(
      inputId = "pal4",
      choices = list(
        "viridis" = viridis_pal(option = "viridis")(10),
        "magma" = viridis_pal(option = "magma")(10),
        "inferno" = viridis_pal(option = "inferno")(10),
        "plasma" = viridis_pal(option = "plasma")(10),
        "cividis" = viridis_pal(option = "cividis")(10)
      ),
      textColor = "#FFF"
    )
  } else if (input$update == "brewer") {
    updatePalettePicker(
      inputId = "pal4",
      choices = list(
        "Blues" = brewer_pal(palette = "Blues")(8),
        "Reds" = brewer_pal(palette = "Reds")(8),
        "Paired" = brewer_pal(palette = "Paired")(8),
        "Set1" = brewer_pal(palette = "Set1")(8)
      )
    )
  }
})

if (interactive()) {
  shinyApp(ui, server)
}

```

match_geom_args

Match list of arguments to arguments of geometry

Description

Match list of arguments to arguments of geometry

Usage

```
match_geom_args(  
  geom,  
  args,  
  add_aes = TRUE,  
  mapping = list(),  
  envir = "ggplot2"  
)
```

Arguments

geom	Character. name of the geometry.
args	Named list, parameters to be matched to the geometry arguments.
add_aes	Add aesthetics parameters (like size, fill, ...).
mapping	Mapping used in plot, to avoid setting fixed aesthetics parameters.
envir	Package environment to search in.

Value

a list

Examples

```
# List of parameters  
params <- list(  
  bins = 30,  
  scale = "width",  
  adjust = 2,  
  position = "stack",  
  size = 1.6,  
  fill = "#112246"  
)  
  
# Search arguments according to geom  
match_geom_args(geom = "histogram", args = params)  
match_geom_args(geom = "violin", args = params)  
match_geom_args(geom = "bar", args = params, add_aes = FALSE)  
match_geom_args(geom = "point", args = params)  
match_geom_args(geom = "point", args = params, add_aes = FALSE)
```

module-chooseData

Module for choosing data.frame

Description

DEPRECATED, please see package [datamods](#) for similar features.

Usage

```
chooseDataUI(id, label = "Data", icon = "database", width = "100%", ...)

chooseDataServer(
  input,
  output,
  session,
  dataModule = c("GlobalEnv", "ImportFile"),
  data = NULL,
  name = NULL,
  selectVars = TRUE,
  selectedTypes = c("continuous", "discrete", "time"),
  coerceVars = FALSE,
  launchOnStart = TRUE,
  size = "m"
)
```

Arguments

id	Module's id.
label	Label for button, passed to actionButton .
icon	Icon to appears on the button, passed to actionButton .
width	Width of button, passed to actionButton .
...	Other arguments passed to actionButton
input, output, session	standards shiny server arguments.
dataModule	Data module to use, choose between "GlobalEnv" (select ad data.frame from Global environment) or "ImportFile" (import an external file supported by import).
data	A data.frame to use by default.
name	Character, object's name to use for data.
selectVars	Display module to select variables, TRUE by default.
selectedTypes	Type of variables selected by default in select variables module. Possible types are "discrete", "time", "continuous" and "id", by default "id" is discarded.
coerceVars	Display module to coerce variables between different class, TRUE by default.
launchOnStart	Opens modal window when the application starts.
size	Size for the modal window.

Value

a [reactiveValues](#) containing the data selected under slot data and the name of the selected data.frame under slot name.

module-coerce	<i>Coerce data.frame's columns module</i>
---------------	---

Description

DEPRECATED, please see package [datamods](#) for similar features.

Usage

```
coerceUI(id)

coerceServer(input, output, session, data, reactiveValuesSlot = "data")
```

Arguments

id	Module id. See callModule .
input, output, session	standards shiny server arguments. ²
data	A data.frame or a reactive function returning a data.frame or a reactivevalues with a slot containing a data.frame (use reactiveValuesSlot to identify that slot)
reactiveValuesSlot	If data is a reactivevalues, specify the name of the slot containing data.

Value

a reactiveValues with two slots: data original data.frame with modified columns, and names column's names with call to coerce method.

module-filterDF	<i>Shiny module to interactively filter a data.frame</i>
-----------------	--

Description

DEPRECATED, please see package [datamods](#) for similar features.

Usage

```
filterDF_UI(id, show_nrow = TRUE)

filterDF(
  input,
  output,
  session,
  data_table = reactive(),
```

```

    data_vars = shiny::reactive(NULL),
    data_name = reactive("data"),
    label_nrow = "Number of rows:",
    drop_ids = TRUE,
    picker = FALSE
  )

```

Arguments

id	Module id. See callModule .
show_nrow	Show number of filtered rows and total.
input, output, session	standards shiny server arguments.
data_table	reactive function returning a data.frame to filter.
data_vars	reactive function returning a character vector of variable to use for filters.
data_name	reactive function returning a character string representing data_table name.
label_nrow	Text to display before the number of rows of filtered data / source data.
drop_ids	Drop columns containing more than 90% of unique values, or than 50 distinct values.
picker	Use shinyWidgets::pickerInput instead of shiny::selectizeInput (default).

Value

A list with 2 elements :

- **data_filtered** : [reactive](#) function returning data filtered.
- **code** : [reactiveValues](#) with 2 slots : expr (raw expression to filter data) and dplyr (code with dplyr pipeline).

potential_geoms	<i>Potential geometries according to the data</i>
-----------------	---

Description

Potential geometries according to the data

Usage

```
potential_geoms(data, mapping, auto = FALSE)
```

Arguments

data	A data.frame
mapping	List of aesthetic mappings to use with data.
auto	Return only one geometry.

Value

A character vector

Examples

```
library(ggplot2)

# One continuous variable
potential_geoms(
  data = iris,
  mapping = aes(x = Sepal.Length)
)

# Automatic pick a geom
potential_geoms(
  data = iris,
  mapping = aes(x = Sepal.Length),
  auto = TRUE
)

# One discrete variable
potential_geoms(
  data = iris,
  mapping = aes(x = Species)
)

# Two continuous variables
potential_geoms(
  data = iris,
  mapping = aes(x = Sepal.Length, y = Sepal.Width)
)
```

run_module

Run module example

Description

DEPRECATED, please see package [datamods](#) for similar features.

Usage

```
run_module(module = c("filterDF", "chooseData", "chooseData2", "coerce"))
```

Arguments

module Module for which to see a demo.

`safe_ggplot`*Safely render a ggplot in Shiny application*

Description

Safely render a ggplot in Shiny application

Usage

```
safe_ggplot(  
  expr,  
  data = NULL,  
  show_notification = c("always", "once", "never"),  
  session = shiny::getDefaultReactiveDomain()  
)
```

Arguments

<code>expr</code>	Code to produce a ggplot object.
<code>data</code>	Argument passed to eval_tidy to evaluate expression.
<code>show_notification</code>	Strategy for notifications when a warning occurs: <ul style="list-style-type: none">• "always" : default, show notifications for each warnings• "once" : show notification once per warning• "never" : do not display notifications.
<code>session</code>	Session object to send notification to.

Value

Output of [ggplot_build](#).

Examples

```
if (interactive()) {  
  library(shiny)  
  library(ggplot2)  
  
  ui <- fluidPage(  
    fluidRow(  
      column(  
        width = 3,  
        selectInput(  
          inputId = "var",  
          label = "Var:",  
          choices = c("Sepal.Width", "Do.Not.Exist")  
        )  
      ),  
    ),  
  )  
}
```

```

      column(
        width = 9,
        plotOutput(outputId = "plot")
      )
    )
  )

server <- function(input, output, session) {

  output$plot <- renderPlot({
    p <- ggplot(iris) +
      geom_point(aes_string("Sepal.Length", input$var))
    safe_ggplot(p)
  })

}

shinyApp(ui, server)
}

```

save-ggplot-module *Save ggplot module*

Description

Save a ggplot object in various format and resize it before saving.

Usage

```

save_ggplot_ui(
  id,
  output_format = c("png", "pdf", "svg", "jpeg", "bmp", "eps", "tiff")
)

save_ggplot_modal(
  id,
  title = NULL,
  output_format = c("png", "pdf", "svg", "jpeg", "bmp", "eps", "tiff")
)

save_ggplot_server(id, plot_rv)

```

Arguments

<code>id</code>	Module ID.
<code>output_format</code>	Output formats offered to the user.
<code>title</code>	Modal's title.
<code>plot_rv</code>	A reactiveValues with a slot plot containing a ggplot object.

Value

No value. Use in UI & server of shiny application.

Examples

```
library(shiny)
library(ggplot2)
library(esquisse)

ui <- fluidPage(
  tags$h2("Save a ggplot"),
  selectInput("var", "Variable:", names(economics)[-1]),
  plotOutput("plot", width = "600px"),
  actionButton("save", "Save this plot")
)

server <- function(input, output, session) {

  rv <- reactiveValues(plot = NULL)

  output$plot <- renderPlot({
    rv$plot <- ggplot(economics) +
      geom_line(aes(date, !!sym(input$var))) +
      theme_minimal()
    rv$plot
  })

  observeEvent(input$save, {
    save_ggplot_modal("ID", "Save plot")
  })
  save_ggplot_server("ID", rv)
}

if (interactive())
  shinyApp(ui, server)
```

updateDragulaInput *Update Dragula Input*

Description

Update `dragulaInput()` widget server-side.

Usage

```
updateDragulaInput(
  session,
  inputId,
```

```

choices = NULL,
choiceNames = NULL,
choiceValues = NULL,
selected = NULL,
selectedNames = NULL,
selectedValues = NULL,
badge = TRUE,
status = "primary"
)

```

Arguments

session	The session object passed to function given to shinyServer.
inputId	The input slot that will be used to access the value.
choices	List of values to select from (if elements of the list are named then that name rather than the value is displayed to the user). If this argument is provided, then choiceNames and choiceValues must not be provided, and vice-versa. The values should be strings; other types (such as logicals and numbers) will be coerced to strings.
choiceNames, choiceValues	List of names and values, respectively, that are displayed to the user in the app and correspond to the each choice (for this reason, choiceNames and choiceValues must have the same length). If either of these arguments is provided, then the other must be provided and choices must not be provided. The advantage of using both of these over a named list for choices is that choiceNames allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text.
selected	Default selected values. Must be a list with targetsIds as names.
selectedNames, selectedValues	Update selected items with custom names and values.
badge	Displays choices inside a Bootstrap badge. Use FALSE if you want to pass custom appearance with choiceNames.
status	If choices are displayed into a Bootstrap label, you can use Bootstrap status to color them, or NULL.

Examples

```

if (interactive()) {

library("shiny")
library("esquisse")

ui <- fluidPage(
  tags$h2("Update dragulaInput"),
  radioButtons(
    inputId = "update",
    label = "Dataset",

```

```

    choices = c("iris", "mtcars")
  ),
  tags$br(),
  dragulaInput(
    inputId = "myDad",
    sourceLabel = "Variables",
    targetsLabels = c("X", "Y", "fill", "color", "size"),
    choices = names(iris),
    replace = TRUE, width = "400px", status = "success"
  ),
  verbatimTextOutput(outputId = "result")
)

server <- function(input, output, session) {

  output$result <- renderPrint(str(input$myDad))

  observeEvent(input$update, {
    if (input$update == "iris") {
      updateDragulaInput(
        session = session,
        inputId = "myDad",
        choices = names(iris),
        status = "success"
      )
    } else {
      updateDragulaInput(
        session = session,
        inputId = "myDad",
        choices = names(mtcars)
      )
    }
  }, ignoreInit = TRUE)
}

shinyApp(ui, server)
}

```

updateDropInput *Change the value of a drop input on the client*

Description

Change the value of a drop input on the client

Usage

```
updateDropInput(session, inputId, selected = NULL, disabled = NULL)
```

Arguments

session	The session object passed to function given to shinyServer.
inputId	The id of the input object.
selected	The initially selected value.
disabled	Choices (choicesValues) to disable.

See Also

[dropInput](#)

Examples

```
if (interactive()) {

  library(shiny)
  library(esquisse)

  myChoices <- tagList(
    list(icon("home"), style = "width: 100px;"),
    list(icon("flash"), style = "width: 100px;"),
    list(icon("cogs"), style = "width: 100px;"),
    list(icon("fire"), style = "width: 100px;"),
    list(icon("users"), style = "width: 100px;"),
    list(icon("info"), style = "width: 100px;")
  )

  ui <- fluidPage(
    tags$h2("Update Drop Input"),
    fluidRow(
      column(
        width = 6,
        dropInput(
          inputId = "mydrop",
          choicesNames = myChoices,
          choicesValues = c("home", "flash", "cogs", "fire", "users", "info"),
          dropWidth = "220px"
        ),
        verbatimTextOutput(outputId = "res")
      ),
      column(
        width = 6,
        actionButton("home", "Select home"),
        actionButton("flash", "Select flash"),
        actionButton("cogs", "Select cogs"),
        actionButton("fire", "Select fire"),
        actionButton("users", "Select users"),
        actionButton("info", "Select info"),
        checkboxGroupInput(
          inputId = "disabled",
          label = "Choices to disable",
```

```

        choices = c("home", "flash", "cogs", "fire", "users", "info")
      ),
      actionButton("disable", "Disable")
    )
  )
}

server <- function(input, output, session) {

  output$res <- renderPrint({
    input$mydrop
  })

  observeEvent(input$home, {
    updateDropInput(session, "mydrop", "home")
  })
  observeEvent(input$flash, {
    updateDropInput(session, "mydrop", "flash")
  })
  observeEvent(input$cogs, {
    updateDropInput(session, "mydrop", "cogs")
  })
  observeEvent(input$fire, {
    updateDropInput(session, "mydrop", "fire")
  })
  observeEvent(input$users, {
    updateDropInput(session, "mydrop", "users")
  })
  observeEvent(input$info, {
    updateDropInput(session, "mydrop", "info")
  })

  observeEvent(input$disable, {
    if (!is.null(input$disabled)) {
      updateDropInput(session, "mydrop", disabled = input$disabled)
    } else {
      updateDropInput(session, "mydrop", disabled = character(0))
    }
  })
}

shinyApp(ui, server)
}

```

 which_pal_scale

Automatically select appropriate color scale

Description

Automatically select appropriate color scale

Usage

```
which_pal_scale(  
  mapping,  
  palette = "ggplot2",  
  data = NULL,  
  fill_type = c("continuous", "discrete"),  
  color_type = c("continuous", "discrete"),  
  reverse = FALSE  
)
```

Arguments

mapping	Aesthetics used in ggplot.
palette	Color palette.
data	An optional data.frame to choose the right type for variables.
fill_type, color_type	Scale to use according to the variable used in fill/color aesthetic: "discrete" or "continuous". Ignored if data is provided: it will be guessed from data.
reverse	Reverse colors order or not.

Value

a list

Examples

```
library(ggplot2)  
  
# Automatic guess according to data  
which_pal_scale(  
  mapping = aes(fill = Sepal.Length),  
  palette = "ggplot2",  
  data = iris  
)  
which_pal_scale(  
  mapping = aes(fill = Species),  
  palette = "ggplot2",  
  data = iris  
)  
  
# Explicitly specify type  
which_pal_scale(  
  mapping = aes(color = variable),  
  palette = "Blues",  
  color_type = "discrete"  
)
```



```
# Both scales
which_pal_scale(
  mapping = aes(color = var1, fill = var2),
  palette = "Blues",
  color_type = "discrete",
  fill_type = "continuous"
)
```

Index

actionButton, [29](#)

build_aes, [2](#)

callModule, [30](#), [31](#)

chooseDataServer (module-chooseData), [28](#)

chooseDataUI (module-chooseData), [28](#)

coerceServer (module-coerce), [30](#)

coerceUI (module-coerce), [30](#)

colorPicker (input-colors), [22](#)

datamods::filter_data_server, [11](#)

datamods::import_server(), [11](#)

downloads_labels (ggplot-output), [19](#)

downloads_labels(), [10](#)

dragulaInput, [3](#)

dragulaInput(), [35](#)

dropInput, [6](#), [38](#)

esquisse, [8](#)

esquisse-deprecated, [9](#)

esquisse-exports, [9](#)

esquisse-module, [10](#)

esquisse-package (esquisse), [8](#)

esquisse_server (esquisse-module), [10](#)

esquisse_ui (esquisse-module), [10](#)

esquisseContainer (esquisse-module), [10](#)

esquisser, [14](#)

esquisserServer, [15](#)

esquisserUI (esquisserServer), [15](#)

eval_tidy, [33](#)

facet_grid, [17](#)

facet_wrap, [17](#)

filterDF (module-filterDF), [30](#)

filterDF_UI (module-filterDF), [30](#)

ggcall, [16](#)

ggplot-output, [19](#)

ggplot_build, [33](#)

ggplot_output (ggplot-output), [19](#)

ggplot_to_ppt, [21](#)

i18n (esquisse-exports), [9](#)

import, [29](#)

input-colors, [22](#)

match_geom_args, [27](#)

module-chooseData, [28](#)

module-coerce, [30](#)

module-esquisse (esquisserServer), [15](#)

module-filterDF, [30](#)

palettePicker (input-colors), [22](#)

ph (esquisse-exports), [9](#)

pickerInput, [23](#)

potential_geoms, [31](#)

reactive, [31](#)

reactiveValues, [29](#), [31](#)

render_ggplot (ggplot-output), [19](#)

run_module, [32](#)

safe_ggplot, [33](#)

safe_ggplot(), [11](#)

save-ggplot-module, [34](#)

save_ggplot_modal (save-ggplot-module), [34](#)

save_ggplot_server
(save-ggplot-module), [34](#)

save_ggplot_ui (save-ggplot-module), [34](#)

set_i18n (esquisse-exports), [9](#)

shiny::plotOutput(), [20](#)

shiny::reactive(), [11](#)

shiny::reactiveValues(), [11](#)

shiny::renderPlot(), [20](#)

shiny::selectizeInput, [31](#)

shinyWidgets::pickerInput, [31](#)

theme, [17](#)

updateColorPicker (input-colors), [22](#)

updateDragulaInput, [35](#)
updateDragulaInput(), [5](#)
updateDropInput, [7](#), [37](#)
updatePalettePicker (input-colors), [22](#)

validateCssUnit, [11](#)
viewer, [14](#)

which_pal_scale, [39](#)