Package: sportyR (via r-universe)

September 12, 2024

Title Plot Scaled 'ggplot' Representations of Sports Playing Surfaces

Version 2.2.2

Description Create scaled 'ggplot' representations of playing
surfaces. Playing surfaces are drawn pursuant to rule-book
specifications. This package should be used as a baseline plot
for displaying any type of tracking data.

License GPL (>= 3)

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Imports ggfittext, ggplot2, glue, grid, rlang

Depends R (>= 3.3)

Suggests data.table, gganimate, testthat (>= 3.0.0), knitr, rmarkdown,
curl

Config/testthat/edition 3

URL <https://sportyr.sportsdataverse.org/>,
<https://github.com/sportsdataverse/sportyR>

BugReports <https://github.com/sportsdataverse/sportyR/issues>

VignetteBuilder knitr

SystemRequirements pandoc (>= 1.12.3), pandoc-citeproc

Repository https://sportsdataverse.r-universe.dev

RemoteUrl https://github.com/sportsdataverse/sportyr

RemoteRef HEAD

RemoteSha 5500cc6a094aae9102a17ef5ed437b055a7e264b

Contents

---

cani_color_league_features

Check to see what features of a surface can be colored

Description

Check to see what features of a surface can be colored

Usage

```
cani_color_league_features(league_code, sport_name = NULL)
```

Arguments

league_code	The case-insensitive league code to be plotted
sport_name	The name of a sport to use in the event that the league_code supplied has more than one sport associated with it. Default: NULL

Value

Nothing, but a message is sent to the console

Examples

```
cani_color_league_features("NCAA", "basketball")
```

---

cani_plot_league	*Check to see if a league can be plotted, and alert as to which function(s) that league will work for*

Description

Check to see if a league can be plotted, and alert as to which function(s) that league will work for

Usage

```
cani_plot_league(league_code)
```

Arguments

league_code   The case-insensitive league code to be plotted

Value

Nothing, but a message is sent to the console

Examples

```
cani_plot_league("MLB")
```

---

cani_plot_sport	*Check to see if a sport can be plotted, and alert as to which league(s) are plottable for the sport*

Description

Check to see if a sport can be plotted, and alert as to which league(s) are plottable for the sport

Usage

```
cani_plot_sport(sport_code)
```

Arguments

sport_code   The case-insensitive sport name

Value

Nothing, but a message is sent to the console

Examples

```
cani_plot_sport("basketball")
```

---

convert_units	*Convert all units, regardless of starting and ending units*

Description

Convert all units, regardless of starting and ending units

Usage

```
convert_units(meas, from_unit, to_unit, conversion_columns = NULL)
```

Arguments

`meas`	A measurement in any unit of length
`from_unit`	A string containing the original unit of measure to be converted
`to_unit`	A string containing the ending unit of measure
`conversion_columns`	
	A vector containing the columns to convert if `meas` is of type `data.frame`

Value

The measurement in converted units

Examples

```
convert_units(1, "in", "cm")
convert_units(100, "cm", "m")
```

---

geom_baseball	*Generate a* `ggplot2` *instance containing a baseball field for a specified league*

Description

Generate a `ggplot2` instance containing a baseball field for a specified league

Usage

```
geom_baseball(
  league,
  display_range = "full",
  field_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
```

```
    y_trans = 0,
    field_units = NULL,
    xlims = NULL,
    ylims = NULL
)
```

Arguments

league	The league for which to draw the surface. This is case-insensitive
display_range	A case-insensitive string indicating the display range to use for the plot. The default is "full", which will be returned when either an invalid or no value is passed to the function.

The possible display ranges are:

"full" The full field. This is the default

"infield" The infield on the baseball field

field_updates	A list of updates to the field's parameters. These will overwrite the parameters of the league
color_updates	A list of updates to the field's default colors, which are set by baseball_features_set_colors()
rotation	An angle, given in degrees, through which the plot should be rotated
x_trans	The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the back tip of home plate towards the left-handed batter's box (the first base side of the field)
y_trans	The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the back tip of home plate towards straight-away center field
field_units	The units with which to draw the field. The default is NULL, which will apply the rule-book specified units
xlims	The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter
ylims	The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A ggplot2 instance with a full-surface representation of a baseball field

Examples

```
## Not run:
  geom_baseball(league = "MLB", rotation = 270, display_range = "infield")
  geom_baseball(league = "little league", field_units = "m")

## End(Not run)
```

---

geom_basketball   *Generate a* ggplot2 *instance containing a basketball court for a spec-
                                    ified league*

Description

Generate a ggplot2 instance containing a basketball court for a specified league

Usage

```
geom_basketball(
  league,
  display_range = "full",
  court_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  court_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league   The league for which to draw the surface. This is case-insensitive

display_range   A case-insensitive string indicating the display range to use for the plot. The
                    default is "full", which will be returned when either an invalid or no value is
                    passed to the function.

                    The possible display ranges are:

                    "full" The full court. This is the default

                    "in_bounds_only" The full in-bounds area of the court

                    "in bounds only" The full in-bounds area of the court

                    "offense" The TV-right half of the court half-court. This is considered the
                          offensive half of the court

                    "offence" The TV-right half of the court half-court. This is considered the
                          offensive half of the court

                    "offensivehalfcourt" The TV-right half of the court half-court. This is con-
                          sidered the offensive half of the court

                    "offensive_half_court" The TV-right half of the court half-court. This is
                          considered the offensive half of the court

                    "offensive half court" The TV-right half of the court half-court. This is
                          considered the offensive half of the court

                    "defense" The TV-left half of the court half-court. This is considered the de-
                          fensive half of the court

"defence" The TV-left half of the court half-court. This is considered the defensive half of the court

"defensivehalfcourt" The TV-left half of the court half-court. This is considered the defensive half of the court

"defensive_half_court" The TV-left half of the court half-court. This is considered the defensive half of the court

"defensive half court" The TV-left half of the court half-court. This is considered the defensive half of the court

"offensivekey" The TV-right offensive key (three-point line and two-point range)

"offensive_key" The TV-right offensive key (three-point line and two-point range)

"offensive key" The TV-right offensive key (three-point line and two-point range)

"attackingkey" The TV-right offensive key (three-point line and two-point range)

"attacking_key" The TV-right offensive key (three-point line and two-point range)

"attacking key" The TV-right offensive key (three-point line and two-point range)

"defensivekey" The TV-left defensive key (three-point line and two-point range)

"defensive_key" The TV-left defensive key (three-point line and two-point range)

"defensive key" The TV-left defensive key (three-point line and two-point range)

"defendingkey" The TV-left defensive key (three-point line and two-point range)

"defending_key" The TV-left defensive key (three-point line and two-point range)

"defending key" The TV-left defensive key (three-point line and two-point range)

"offensivepaint" The TV-right offensive free-throw lane

"offensive_paint" The TV-right offensive free-throw lane

"offensive paint" The TV-right offensive free-throw lane

"attackingpaint" The TV-right offensive free-throw lane

"attacking_paint" The TV-right offensive free-throw lane

"attacking paint" The TV-right offensive free-throw lane

"offensivelane" The TV-right offensive free-throw lane

"offensive_lane" The TV-right offensive free-throw lane

"offensive lane" The TV-right offensive free-throw lane

"attackinglane" The TV-right offensive free-throw lane

"attacking_lane" The TV-right offensive free-throw lane

"attacking lane" The TV-right offensive free-throw lane

"defensivepaint" The TV-left defensive free-throw lane

"defensive_paint" The TV-left defensive free-throw lane

> "defensive paint" The TV-left defensive free-throw lane
>
> "defendingpaint" The TV-left defensive free-throw lane
>
> "defending_paint" The TV-left defensive free-throw lane
>
> "defending paint" The TV-left defensive free-throw lane
>
> "defensivelane" The TV-left defensive free-throw lane
>
> "defensive_lane" The TV-left defensive free-throw lane
>
> "defensive lane" The TV-left defensive free-throw lane
>
> "defendinglane" The TV-left defensive free-throw lane
>
> "defending_lane" The TV-left defensive free-throw lane
>
> "defending lane" The TV-left defensive free-throw lane

court_updates   A list of updates to the courts' parameters. These will overwrite the parameters
                  of the league

color_updates   A list of updates to the courts' default colors, which are set by `basketball_features_set_colors()`

rotation   An angle, given in degrees, through which the plot should be rotated

x_trans   The amount that the x coordinates are to be shifted. By convention, the +x axis
                  extends from the center of the court towards the right-hand basket when viewing
                  the court in TV View

y_trans   The amount that the y coordinates are to be shifted. By convention, the +y axis
                  extends from the center of the court towards the top of the court when viewing
                  the court in TV view

court_units   The units with which to draw the court. The default is NULL, which will apply
                  the rule-book specified units

xlims   The limits on the final display in the x direction. The default is NULL, which will
                  utilize the xlims specified by the display_range parameter

ylims   The limits on the final display in the y direction. The default is NULL, which will
                  utilize the ylims specified by the display_range parameter

Value

A `ggplot2` instance with a full-surface representation of a basketball court

Examples

```
## Not run:
  geom_basketball(league = "NBA", rotation = 270, display_range = "offense")
  geom_basketball(league = "fiba", court_units = "ft")

## End(Not run)
```

---

geom_curling	*Generate a* ggplot2 *instance containing a curling sheet for a specified league*

Description

Generate a ggplot2 instance containing a curling sheet for a specified league

Usage

```
geom_curling(
  league,
  display_range = "full",
  sheet_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  sheet_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league	The league for which to draw the surface. This is case-insensitive
display_range	A case-insensitive string indicating the display range to use for the plot. The default is "full", which will be returned when either an invalid or no value is passed to the function.
	The possible display ranges are:
	"full" The full sheet. This is the default
	"in_bounds_only" The full in-bounds area of the sheet
	"in bounds only" The full in-bounds area of the sheet
	"house" A single house, which defaults to the top house in TV view
sheet_updates	A list of updates to the sheet's parameters. These will overwrite the parameters of the league
color_updates	A list of updates to the sheet's default colors, which are set by [curling_features_set_colors()](#)
rotation	An angle, given in degrees, through which the plot should be rotated
x_trans	The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the center of the sheet towards the right-hand goal when viewing the sheet in TV View
y_trans	The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the sheet towards the top of the sheet when viewing the sheet in TV view

sheet_units	The units with which to draw the sheet. The default is NULL, which will apply the rule-book specified units
xlims	The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter
ylims	The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A ggplot2 instance with a full-surface representation of a curling sheet

Examples

```
## Not run:
  geom_curling(league = "wcf", rotation = 270, display_range = "house")
  geom_curling(league = "wcf", sheet_units = "ft")

## End(Not run)
```

---

geom_football	*Generate a* ggplot2 *instance containing a football field for a specified league*

Description

Generate a ggplot2 instance containing a football field for a specified league

Usage

```
geom_football(
  league,
  display_range = "full",
  field_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  field_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league	The league for which to draw the surface. This is case-insensitive

display_range   A case-insensitive string indicating the display range to use for the plot. The
                 default is "full", which will be returned when either an invalid or no value is
                 passed to the function.

                 The possible display ranges are:

                 "full" The full field. This is the default

                 "in_bounds_only" The full in-bounds area of the field

                 "in bounds only" The full in-bounds area of the field

                 "offense" The TV-right half of the field

                 "offence" The TV-right half of the field

                 "offensivehalffield" The TV-right half of the field

                 "offensive_half_field" The TV-right half of the field

                 "offensive half field" The TV-right half of the field

                 "defense" The TV-left half of the field

                 "defence" The TV-left half of the field

                 "defensivehalffield" The TV-left half of the field

                 "defensive_half_field" The TV-left half of the field

                 "defensive half field" The TV-left half of the field

                 "redzone" The offensive red zone of the field. This is by definition 20 yards
                      from the goal line

                 "red_zone" The offensive red zone of the field. This is by definition 20 yards
                      from the goal line

                 "red zone" The offensive red zone of the field. This is by definition 20 yards
                      from the goal line

                 "oredzone" The offensive red zone of the field. This is by definition 20 yards
                      from the goal line

                 "offensive_red_zone" The offensive red zone of the field. This is by defini-
                      tion 20 yards from the goal line

                 "offensive red zone" The offensive red zone of the field. This is by definition
                      20 yards from the goal line

                 "dredzone" The defensive red zone of the field. This is by definition 20 yards
                      from the goal line

                 "defensive_red_zone" The defensive red zone of the field. This is by defini-
                      tion 20 yards from the goal line

                 "defensive red zone" The defensive red zone of the field. This is by defini-
                      tion 20 yards from the goal line

field_updates   A list of updates to the field's parameters. These will overwrite the parameters
                 of the league

color_updates   A list of updates to the field's default colors, which are set by football_features_set_colors()

rotation   An angle, given in degrees, through which the plot should be rotated

x_trans   The amount that the x coordinates are to be shifted. By convention, the +x
                 axis extends from the center of the field towards the right-hand endzone when
                 viewing the field in TV View

y_trans	The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the field towards the sideline when viewing the field in TV view
field_units	The units with which to draw the field. The default is NULL, which will apply the rule-book specified units
xlims	The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter
ylims	The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A `ggplot2` instance with a full-surface representation of a football field

Examples

```
## Not run:
  geom_football(league = "NFL", rotation = 270, display_range = "red_zone")
  geom_football(league = "cfl", field_units = "ft")

## End(Not run)
```

---

geom_hockey	*Generate a* ggplot2 *instance containing an ice rink for a specified league*

Description

Generate a `ggplot2` instance containing an ice rink for a specified league

Usage

```
geom_hockey(
  league,
  display_range = "full",
  rink_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  rink_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league	The league for which to draw the surface. This is case-insensitive
display_range	A case-insensitive string indicating the display range to use for the plot. The default is "full", which will be returned when either an invalid or no value is passed to the function.

The possible display ranges are:

"full" The full ice surface. This is the default

"in_bounds_only" The full in-bounds area of the rink

"in bounds only" The full in-bounds area of the rink

"offense" The TV-right half of the rink

"offence" The TV-right half of the rink

"defense" The TV-left half of the rink

"defence" The TV-left half of the rink

"ozone" The TV-right zone of the rink

"offensive_zone" The TV-right zone of the rink

"offensive zone" The TV-right zone of the rink

"attacking_zone" The TV-right zone of the rink

"attacking zone" The TV-right zone of the rink

"dzone" The TV-left zone of the rink

"defensive_zone" The TV-left zone of the rink

"defensive zone" The TV-left zone of the rink

"defending_zone" The TV-left zone of the rink

"defending zone" The TV-left zone of the rink

"nzone" The middle zone of the rink

"neutral" The middle zone of the rink

"neutral_zone" The middle zone of the rink

"neutral zone" The middle zone of the rink

rink_updates	A list of updates to the rink's parameters. These will overwrite the parameters of the league
color_updates	A list of updates to the courts' default colors, which are set by hockey_features_set_colors()
rotation	An angle, given in degrees, through which the plot should be rotated
x_trans	The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the center of the ice surface towards the right-hand goal when viewing the rink in TV View
y_trans	The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the ice surface towards the top of the rink when viewing the rink in TV view
rink_units	The units with which to draw the rink. The default is NULL, which will apply the rule-book specified units
xlims	The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter
ylims	The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A `ggplot2` instance with a full-surface representation of an ice hockey rink

Examples

```
## Not run:
  geom_hockey(league = "NHL", rotation = 270, display_range = "ozone")
  geom_hockey(league = "iihf", rink_units = "ft")

## End(Not run)
```

---

geom_lacrosse   *Generate a* `ggplot2` *instance containing a lacrosse field for a specified*
                             league

Description

Generate a `ggplot2` instance containing a lacrosse field for a specified league

Usage

```
geom_lacrosse(
  league,
  display_range = "full",
  field_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  field_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league   The league for which to draw the surface. This is case-insensitive

display_range   A case-insensitive string indicating the display range to use for the plot. The
                    default is `"full"`, which will be returned when either an invalid or no value is
                    passed to the function.

                    The possible display ranges are:

                    `"full"` The full field. This is the default

                    `"offense"` The offensive half of the field. This is the right half of the field in
                         TV view

                    `"offence"` The offensive half of the field. This is the right half of the field in
                         TV view

"offensivehalffield" The offensive half of the field. This is the right half of the field in TV view

"offensive_half_field" The offensive half of the field. This is the right half of the field in TV view

"offensive half field" The offensive half of the field. This is the right half of the field in TV view

"defense" The defensive half of the field. This is the left half of the field in TV view

"defence" The defensive half of the field. This is the left half of the field in TV view

"defensivehalffield" The defensive half of the field. This is the left half of the field in TV view

"defensive_half_field" The defensive half of the field. This is the left half of the field in TV view

"defensive half field" The defensive half of the field. This is the left half of the field in TV view

field_updates   A list of updates to the fields' parameters. These will overwrite the parameters of the league

color_updates   A list of updates to the fields' default colors, which are set by lacrosse_features_set_colors()

rotation   An angle, given in degrees, through which the plot should be rotated

x_trans   The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the center of the field towards the right-hand basket when viewing the field in TV View

y_trans   The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the field towards the top of the field when viewing the field in TV view

field_units   The units with which to draw the field. The default is NULL, which will apply the rule-book specified units

xlims   The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter

ylims   The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A ggplot2 instance with a full-surface representation of a lacrosse field

Examples

```
## Not run:
  geom_lacrosse(league = "NCAA", rotation = 270, display_range = "offense")
  geom_lacrosse(league = "FIVB", field_units = "ft")

## End(Not run)
```

---

geom_soccer   *Generate a* ggplot2 *instance containing a soccer pitch for a specified league*

Description

Generate a ggplot2 instance containing a soccer pitch for a specified league

Usage

```
geom_soccer(
  league,
  display_range = "full",
  pitch_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  pitch_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league   The league for which to draw the surface. This is case-insensitive

display_range   A case-insensitive string indicating the display range to use for the plot. The default is "full", which will be returned when either an invalid or no value is passed to the function.

The possible display ranges are:

"full" The full pitch. This is the default

"in_bounds_only" The full in-bounds area of the pitch

"in bounds only" The full in-bounds area of the pitch

"offense" The TV-right half of the pitch

"offence" The TV-right half of the pitch

"offensivehalfpitch" The TV-right half of the pitch

"offensive_half_pitch" The TV-right half of the pitch

"offensive half pitch" The TV-right half of the pitch

"defense" The TV-left half of the pitch

"defence" The TV-left half of the pitch

"defensivehalfpitch" The TV-left half of the pitch

"defensive_half_pitch" The TV-left half of the pitch

"defensive half pitch" The TV-left half of the pitch

pitch_updates	A list of updates to the pitch's parameters. These will overwrite the parameters of the league
color_updates	A list of updates to the pitch's default colors, which are set by [soccer_features_set_colors()](#)
rotation	An angle, given in degrees, through which the plot should be rotated
x_trans	The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the center of the pitch towards the right-hand goal when viewing the pitch in TV View
y_trans	The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the pitch towards the top of the pitch when viewing the pitch in TV view
pitch_units	The units with which to draw the pitch. The default is NULL, which will apply the rule-book specified units
xlims	The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter
ylims	The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A ggplot2 instance with a full-surface representation of a soccer pitch

Examples

```
## Not run:
  geom_soccer(league = "EPL", rotation = 270, display_range = "offense")
  geom_soccer(league = "fifa", pitch_units = "ft")

## End(Not run)
```

---

geom_tennis	*Generate a* ggplot2 *instance containing a tennis court for a specified league*

Description

Generate a ggplot2 instance containing a tennis court for a specified league

Usage

```
geom_tennis(
  league,
  display_range = "full",
  court_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
```

```
  y_trans = 0,
  court_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

`league`	The league for which to draw the surface. This is case-insensitive
`display_range`	A case-insensitive string indicating the display range to use for the plot. The default is `"full"`, which will be returned when either an invalid or no value is passed to the function.

The possible display ranges are:

`"full"`	The full court. This is the default
`"in_bounds_only"`	The full in-bounds area of the court
`"in bounds only"`	The full in-bounds area of the court
`"serve"`	The serving half of the court
`"serving"`	The serving half of the court
`"servicehalf"`	The serving half of the court
`"service_half"`	The serving half of the court
`"service half"`	The serving half of the court
`"servinghalf"`	The serving half of the court
`"serving_half"`	The serving half of the court
`"serving half"`	The serving half of the court
`"receive"`	The receiving half of the court
`"receiving"`	The receiving half of the court
`"receivicehalf"`	The receiving half of the court
`"receivice_half"`	The receiving half of the court
`"receivice half"`	The receiving half of the court
`"receivinghalf"`	The receiving half of the court
`"receiving_half"`	The receiving half of the court
`"receiving half"`	The receiving half of the court

`court_updates`	A list of updates to the courts' parameters. These will overwrite the parameters of the league
`color_updates`	A list of updates to the courts' default colors, which are set by [tennis_features_set_colors()](#)
`rotation`	An angle, given in degrees, through which the plot should be rotated
`x_trans`	The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the center of the court towards the right-hand serviceline when viewing the court in TV View
`y_trans`	The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the court towards the sideline when viewing the court in TV view
`court_units`	The units with which to draw the court. The default is NULL, which will apply the rule-book specified units

xlims	The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter
ylims	The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A ggplot2 instance with a full-surface representation of a tennis court

Examples

```
## Not run:
  geom_tennis(league = "USTA", rotation = 270, display_range = "serving")
  geom_tennis(league = "itf", court_units = "m")

## End(Not run)
```

---

geom_volleyball	*Generate a* ggplot2 *instance containing a volleyball court for a specified league*

Description

Generate a ggplot2 instance containing a volleyball court for a specified league

Usage

```
geom_volleyball(
  league,
  display_range = "full",
  court_updates = list(),
  color_updates = list(),
  rotation = 0,
  x_trans = 0,
  y_trans = 0,
  court_units = NULL,
  xlims = NULL,
  ylims = NULL
)
```

Arguments

league	The league for which to draw the surface. This is case-insensitive
display_range	A case-insensitive string indicating the display range to use for the plot. The default is "full", which will be returned when either an invalid or no value is passed to the function.

The possible display ranges are:

"full" The full court. This is the default

"in_bounds_only" The full in-bounds area of the court

"in bounds only" The full in-bounds area of the court

"offense" The offensive half of the court. This is the right half of the court in TV view

"offence" The offensive half of the court. This is the right half of the court in TV view

"offensivehalfcourt" The offensive half of the court. This is the right half of the court in TV view

"offensive_half_court" The offensive half of the court. This is the right half of the court in TV view

"offensive half court" The offensive half of the court. This is the right half of the court in TV view

"defense" The defensive half of the court. This is the left half of the court in TV view

"defence" The defensive half of the court. This is the left half of the court in TV view

"defensivehalfcourt" The defensive half of the court. This is the left half of the court in TV view

"defensive_half_court" The defensive half of the court. This is the left half of the court in TV view

"defensive half court" The defensive half of the court. This is the left half of the court in TV view

court_updates   A list of updates to the courts' parameters. These will overwrite the parameters of the league

color_updates   A list of updates to the courts' default colors, which are set by volleyball_features_set_colors()

rotation   An angle, given in degrees, through which the plot should be rotated

x_trans   The amount that the x coordinates are to be shifted. By convention, the +x axis extends from the center of the court towards the right-hand basket when viewing the court in TV View

y_trans   The amount that the y coordinates are to be shifted. By convention, the +y axis extends from the center of the court towards the top of the court when viewing the court in TV view

court_units   The units with which to draw the court. The default is NULL, which will apply the rule-book specified units

xlims   The limits on the final display in the x direction. The default is NULL, which will utilize the xlims specified by the display_range parameter

ylims   The limits on the final display in the y direction. The default is NULL, which will utilize the ylims specified by the display_range parameter

Value

A ggplot2 instance with a full-surface representation of a volleyball court

Examples

```
## Not run:
  geom_volleyball(league = "NCAA", rotation = 270, display_range = "offense")
  geom_volleyball(league = "FIVB", court_units = "ft")

## End(Not run)
```

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