

Package ‘yarr’

May 8, 2026

Title A Companion to the e-Book ‘YaRrr!: The Pirate's Guide to R’

Version 0.1.14

Date 2025-07-30

Description Contains a mixture of functions and data sets referred to in the introductory e-book ‘YaRrr!: The Pirate's Guide to R’. The latest version of the e-book is available for free at <<https://bookdown.org/ndphillips/YaRrr/>>.

Depends jpeg,BayesFactor,circlize

License GPL-2

LazyData true

URL <https://bookdown.org/ndphillips/YaRrr/>

BugReports <https://github.com/ndphillips/yarr/issues>

RoxygenNote 7.3.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-07-30 23:10:02 UTC

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 apa

apa

Description

This function takes a hypothesis test object (e.g.; `t.test()`, `cor.test()`, `chisq.test()`) as an input, and returns a string with the test result in APA format.

Usage

```
apa(test.object, tails = 2, sig.digits = 2, p.lb = 0.01)
```

Arguments

<code>test.object</code>	A hypothesis test object generated by functions such as <code>t.test()</code> , <code>cor.test</code> , <code>chisq.test()</code>
<code>tails</code>	The number of tails in the test (1 or 2)
<code>sig.digits</code>	The number of digits results are rounded to
<code>p.lb</code>	The lower bound of the p-value display. If the p-value is less than <code>p.lb</code> , the exact value will not be displayed.

Examples

```
x <- rnorm(100)
y <- x + rnorm(100)
a <- sample(1:3, size = 200, prob = c(.3, .2, .5), replace = TRUE)
b <- sample(1:3, size = 200, prob = c(.3, .2, .5), replace = TRUE)

apa(t.test(x, y))
apa(cor.test(x, y))
apa(chisq.test(table(a, b)))
```

`auction` *auction*

Description

A dataframe containing data from 1000 ships sold at a pirate auction.

Usage

`auction`

Format

A data frame containing 1000 rows and 8 columns

cannons (integer) The number of cannons on the ship

rooms (integer) The number of rooms on the ship

age (numeric) The age of the ship in years

condition (integer) The condition of the ship on a scale of 1 to 10

color (string) The color of the ship

style (string) The style of the ship - either modern or classic

jbb (numeric) The pre-sale predicted value of the ship according to Jack’s Blue Book (JBB)

price (numeric) The actual selling price of the ship (in gold pieces, obviously)

Source

2015 annual pirate auction in Portland Oregon

`BeardLengths` *BeardLengths*

Description

A dataframe containing the lengths of beards on 3 different pirate ships

Usage

`BeardLengths`

Format

A data frame containing 150 rows and 2 columns

Ship (character) - The pirate’s ship

Beard (numeric) - The length of the pirate’s beard in cm

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

capture

capture

Description

A dataframe containing a historical record of every ship the Perilous Pigeon captured on the Bodensee in the years 2014 and 2015

Usage

capture

Format

A data frame containing 1000 rows and 10 columns

size (integer) - The size (length) of the ship (maybe in meters?)

cannons (integer) - The number of cannons on the ship

style (string) - The style of the ship (either modern or classic)

warnshot (binary) - Did the ship fire a warning shot at the Perilous Pigeon when it got close?

date (integer) - The date of the capture (1 = January 1, 365 = December 31)

heardof (binary) - Was the target ship recognized by the captain's first mate?

decorations (integer) - An integer between 1 and 10 indicating how decorated the ship was. 1 means it looks totally common and shabby, 10 means it is among the finest looking ship you've ever seen!

daysfromshore (integer) - How many days from the nearest land was the ship when it was found?

speed (integer) - How fast was the ship going when it was caught?

treasure (numeric) - How much treasure was found on the ship when it was captured?

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

diamonds	<i>diamonds</i>
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Description

A dataframe containing information about 150 diamonds sold at auction.

Usage

diamonds

Format

A data frame containing 300 rows and 4 columns

weight (numeric) - The weight of the diamond

clarity (numeric) - The clarity of the diamond

color (numeric) - The color shading of the diamond

value The value of the diamond

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

examscores	<i>examscores</i>
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Description

A dataframe containing the results of 4 exams given to 100 students. Each row represents a student, each column is a score on an exam

Usage

examscores

Format

A data frame containing 100 rows and 4 columns

a (numeric) - Score on exam a

b (numeric) - ...exam b

c (numeric) - ...exam c

d (numeric) - ...exam d

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

movies

movies

Description

A dataframe containing information about the top 5000 grossing movies of all time.

Usage

movies

Format

A data frame containing 5000 rows and 13 columns

name Movie name

rating MPAA rating

genre Movie genre

creative.type Creative type

time Running time in minutes

year Year of release

production.method Production method

sequel Was the movie a sequel? 1 = yes, 0 = no

budget Movie budget (in \$USD millions)

revenue.all Gross worldwide revenue in \$USD millions

revenue.dom Domestic revenue in \$USD millions

revenue.int International revenue in \$USD millions

revenue.inf Inflation adjusted worldwide revenue in \$USD millions

Source

www.the-numbers.com

`piratepal`*piratepal*

Description

This function provides a number of color palettes

Usage

```
piratepal(  
  palette = "all",  
  trans = 0,  
  mix.col = "white",  
  mix.p = 0,  
  plot.result = FALSE,  
  length.out = NULL  
)
```

Arguments

<code>palette</code>	A string defining the color palette to use (see examples). To use a random palette, use "random". To plot all palettes, use "all". To see all palette names, use "names"
<code>trans</code>	A number in the interval [0, 1] indicating how transparent to make the colors. A value of 0 means no transparency and a value of 1 means completely transparency.
<code>mix.col</code>	string. An optional string representing a color to mix all colors in the palette with.
<code>mix.p</code>	numeric. A number in the interval [0, 1] indicating how much to mix the palette colors with the color in <code>mix.col</code>
<code>plot.result</code>	A logical value indicating whether or not to display the colors.
<code>length.out</code>	An integer indicating how many colors to return. If <code>length.out</code> is larger than the number of colors in the palette, colors will be repeated.

Examples

```
# Check out the vignette for a full guide  
vignette("piratepal", package = "yarr")  
  
# Show all palettes  
piratepal(palette = "all")  
  
# Show some palettes
```

```
piratepal(palette = "basel", trans = .5, plot.result = TRUE)

# Using a palette in a scatterplot

nemo.cols <- piratepal(palette = "nemo", trans = .5)

set.seed(100) # For reproducibility
x <- rnorm(100)
y <- x + rnorm(100)

plot(
  x = x, y = y, col = nemo.cols,
  pch = 16,
  cex = runif(100, min = 0, max = 2),
  main = "piratepal('nemo', trans = .5)"
)
```

pirateplot

pirateplot

Description

The `pirateplot` function creates an RDI (Raw data, Descriptive and Inferential statistic) plot showing the relationship between 1 to 3 categorical independent variables and 1 continuous dependent variable.

Usage

```
pirateplot(
  formula = NULL,
  data = NULL,
  plot = TRUE,
  avg.line.fun = mean,
  pal = "basel",
  pointpars = NULL,
  mix.col = "white",
  mix.p = 0,
  back.col = NULL,
  point.cex = NULL,
  point.pch = NULL,
  point.lwd = 1,
  jitter.val = 0.03,
  theme = 1,
  beside = TRUE,
  bean.b.o = NULL,
```

```
bean.f.o = NULL,  
point.o = NULL,  
bar.f.o = NULL,  
bar.b.o = NULL,  
inf.f.o = NULL,  
inf.b.o = NULL,  
avg.line.o = NULL,  
gl.col = NULL,  
point.col = NULL,  
point.bg = NULL,  
bar.f.col = NULL,  
bean.b.col = NULL,  
bean.f.col = NULL,  
inf.f.col = NULL,  
inf.b.col = NULL,  
avg.line.col = NULL,  
bar.b.col = NULL,  
quant.col = NULL,  
avg.line.lwd = 4,  
bean.lwd = 1,  
bean.lty = 1,  
inf.lwd = NULL,  
bar.lwd = 1,  
at = NULL,  
bw = "nrd0",  
adjust = 1,  
add = FALSE,  
sortx = "alphabetical",  
decreasing = FALSE,  
cex.lab = 1,  
cex.axis = 1,  
cex.names = 1,  
force.layout = FALSE,  
quant = NULL,  
quant.length = NULL,  
quant.lwd = NULL,  
bty = "o",  
cap.beans = TRUE,  
family = NULL,  
inf.method = "hdi",  
inf.within = NULL,  
inf.p = NULL,  
hdi.iter = 1000,  
inf.disp = NULL,  
cut.min = NULL,  
cut.max = NULL,  
width.min = 0.3,  
width.max = NA,
```

```

ylim = NULL,
xlim = NULL,
xlab = NULL,
ylab = NULL,
main = NULL,
yaxt = NULL,
xaxt = NULL,
yaxt.y = NULL,
gl.y = NULL,
gl.lwd = NULL,
gl.lty = NULL,
bar.b.lwd = NULL,
line.fun = NULL,
line.o = NULL,
inf.o = NULL,
bean.o = NULL,
inf.col = NULL,
theme.o = NULL,
bar.o = NULL,
inf = NULL,
hdi.o = NULL,
inf.type = NULL,
inf.band = NULL,
gl = NULL
)

```

Arguments

formula	formula. A formula in the form $y \sim x_1 + x_2 + x_3$ indicating the vertical response variable (y) and up to three independent variables
data	Either a dataframe containing the variables specified in formula, a list of numeric vectors, or a numeric dataframe / matrix.
plot	logical. If TRUE (the default), then the pirateplot is produced. If FALSE, the data summaries created in the plot are returned as a list.
avg.line.fun	function. A function that determines how average lines and bar heights are determined (default is mean).
pal	string. The color palette of the plot. Can be a single color, a vector of colors, or the name of a palette in the piratepal() function (e.g.; "basel", "google", "southpark"). To see all the palettes, run piratepal(palette = "all", action = "show")
pointpars	dataframe A dataframe containing optional additional plotting parameters for points. The dataframe should have the same number of rows as data, and have column names in the set col, bg, pch, labels.
mix.col, mix.p	Optional color mixing arguments to be passed to piratepal. See ?piratepal for examples.
back.col	string. Color of the plotting background.

<code>point.cex</code> , <code>point.pch</code> , <code>point.lwd</code>	numeric. The size, pch type, and line width of raw data points.
<code>jitter.val</code>	numeric. Amount of jitter added to points horizontally. Defaults to 0.05.
<code>theme</code>	integer. An integer in the set 0, 1, 2 specifying a theme (that is, new default values for opacities and colors). <code>theme = 0</code> turns off all opacities which can then be individually specified individually.
<code>beside</code>	logical. If FALSE, then the second independent variable is spread over separate plots, rather than separated in the same plot.
<code>bar.f.o</code> , <code>point.o</code> , <code>inf.f.o</code> , <code>inf.b.o</code> , <code>avg.line.o</code> , <code>bean.b.o</code> , <code>bean.f.o</code> , <code>bar.b.o</code>	numeric. A number between 0 and 1 indicating how opaque to make the bars, points, inference band, average line, and beans respectively. These values override whatever is in the specified theme
<code>point.col</code> , <code>bar.f.col</code> , <code>bean.b.col</code> , <code>bean.f.col</code> , <code>inf.f.col</code> , <code>inf.b.col</code> , <code>avg.line.col</code> , <code>bar.b.col</code> , <code>quant.col</code> , <code>point.bg</code>	string. Vectors of colors specifying the colors of the plotting elements. This will override values in the palette. f stands for filling, b stands for border.
<code>bean.lwd</code> , <code>bean.lty</code> , <code>inf.lwd</code> , <code>avg.line.lwd</code> , <code>bar.lwd</code>	numeric. Vectors of numbers customizing the look of beans and lines.
<code>at</code>	integer. Locations of the beans. Especially helpful when adding beans to an existing plot with <code>add = TRUE</code>
<code>bw</code> , <code>adjust</code>	Arguments passed to density calculations for beans (see <code>?density</code>)
<code>add</code>	logical. Should the pirateplot elements be added to an existing plotting space?
<code>sortx</code>	string. How to sort the x values. Can be "sequential" (as they are found in the original dataframe), "alphabetical", or a string in the set ("mean", "median", "min", "max") indicating a function
<code>decreasing</code>	logical. If <code>sortx</code> is a named function, should values be sorted in decreasing order?
<code>cex.lab</code> , <code>cex.axis</code> , <code>cex.names</code>	Size of the labels, axes, and bean names.
<code>force.layout</code>	logical. If TRUE, then all internal plotting formatting functions (e.g.; <code>mfrow</code> , <code>mar</code>) are turned off.
<code>quant</code>	numeric. Adds horizontal lines representing custom quantiles.
<code>quant.length</code> , <code>quant.lwd</code>	numeric. Specifies line lengths/widths of quant.
<code>bty</code> , <code>xlim</code> , <code>ylim</code> , <code>xlab</code> , <code>ylab</code> , <code>main</code> , <code>yaxt</code> , <code>xaxt</code>	General plotting arguments
<code>cap.beans</code>	logical. Should maximum and minimum values of the bean densities be capped at the limits found in the data? Default is FALSE.
<code>family</code>	a font family (Not currently in use)
<code>inf.method</code>	string. A string indicating what types of inference bands to calculate. "ci" means frequentist confidence intervals, "hdi" means Bayesian Highest Density Intervals (HDI), "iqr" means interquartile range, "sd" means standard deviation, "se" means standard error, "withinci" means frequentist confidence intervals in a within design (Morey, 2008).

`inf.within` string. The variable which serves as an ID variable in a within design.
`inf.p` numeric. A number adjusting how inference ranges are calculated. for "ci" and "hdi", a number between 0 and 1 indicating the level of confidence (default is .95). For "sd" and "se", the number of standard deviations / standard errors added to or subtracted from the mean (default is 1).
`hdi.iter` integer. Number of iterations to run when calculating the HDI. Larger values lead to better estimates, but can be more time consuming.
`inf.disp` string. How should inference ranges be displayed? "line" creates a classic vertical line, "rect" creates a rectangle, "bean" forms the inference around the bean.
`cut.min, cut.max` numeric. Optional minimum and maximum values of the beans.
`width.min, width.max` numeric. The minimum/maximum width of the beans.
`yaxt.y` numeric. Locations of tick marks on the y-axis
`gl.y` numeric. Locations of the horizontal grid lines
`gl.lwd, gl.lty, gl.col` Customization for grid lines. Can be entered as vectors for alternating gridline types
`bar.b.lwd, line.fun, inf.o, bean.o, inf.col, theme.o, inf, inf.type, inf.band, bar.o, line.o, hdi.o, gl` deprecated arguments

Examples

```

# Default pirateplot of weight by Time
pirateplot(
  formula = weight ~ Time,
  data = ChickWeight
)

# Same but in grayscale
pirateplot(
  formula = weight ~ Time,
  data = ChickWeight,
  pal = "gray"
)

# Now using theme 2
pirateplot(
  formula = weight ~ Time,
  data = ChickWeight,
  main = "Chicken weight by time",
  theme = 2
) # theme 2

# theme 3

```

```
pirateplot(  
  formula = weight ~ Time,  
  data = ChickWeight,  
  main = "Chicken weight by time",  
  theme = 3  
) # theme 3  
  
# theme 4  
pirateplot(  
  formula = weight ~ Time,  
  data = ChickWeight,  
  main = "Chicken weight by time",  
  theme = 4  
) # theme 4  
  
# Start with theme 2, but then customise!  
pirateplot(  
  formula = weight ~ Time,  
  data = ChickWeight,  
  theme = 2, # theme 2  
  pal = "xmen", # xmen palette  
  main = "Chicken weights by Time",  
  point.o = .4, # Add points  
  point.col = "black",  
  point.bg = "white",  
  point.pch = 21,  
  bean.f.o = .2, # Turn down bean filling  
  inf.f.o = .8, # Turn up inf filling  
  gl.col = "gray", # gridlines  
  gl.lwd = c(.5, 0)  
) # turn off minor grid lines  
  
# 2 IVs  
pirateplot(  
  formula = len ~ dose + supp,  
  data = ToothGrowth,  
  main = "Guinea pig tooth length by supplement",  
  point.pch = 16, # Point specifications...  
  point.col = "black",  
  point.o = .7,  
  inf.f.o = .9, # inference band opacity  
  gl.col = "gray"  
)  
  
# Build everything from scratch with theme 0  
# And use 3 IVs  
pirateplot(  
  formula = height ~ headband + eyepatch + sex,  
  data = pirates,  
  pal = gray(.1), # Dark gray palette  
  theme = 0, # Start from scratch  
  inf.f.o = .7, # Band opacity
```

```

inf.f.col = piratepal("base1"), # Add color to bands
point.o = .1, # Point opacity
avg.line.o = .8, # Average line opacity
gl.col = gray(.6), # Gridline specifications
gl.lty = 1,
gl.lwd = c(.5, 0)
)

# See the vignette for more details
vignette("pirateplot", package = "yarr")

```

pirates

pirates

Description

A dataset containing the results of a survey of 1,000 pirates.

Usage

```
pirates
```

Format

A data frame containing 1,000 rows and 14 columns

id An integer giving the pirate's id number

sex A string with the pirate's self reported sex

age An integer giving the age of the pirate in years

height Height in cm

weight Weight in kg

headband A binary variable indicating whether the pirate wears a headband

college A string indicating the college the pirate went to. JSSFP stands for Jack Sparro's School of Fashion and Piratery, while CCCC stands for Captain Chunk's Cannon Crew

tattoos An integer indicating the number of tattoos the pirate has

tchests An integer indicating the number of treasure chests found by the pirate

parrots An integer indicating the number of parrots owned by the pirate in his/her lifetime

favorite.pirate A string indicating The pirate's favorite pirate

sword.type A string indicating the type of sword the pirate uses

eyepatch An integer indicating the number of eyepatches worn by the pirate

sword.time A number indicating how long it takes (in seconds) for the pirate to draw his/her sword. Smaller times are better!

beard.length A number indicating length of the pirate's beard in centimeters

fav.pixar A string indicating Pirate's favorite pixar movie

grogg How many mugs of grogg the pirate drinks a day on average.

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

pirateserrors	<i>pirateserrors</i>
---------------	----------------------

Description

A dataset containing the results of a survey of 1,000 pirates. This dataset is identical to the pirates dataset - except that it has many errors!

Usage

pirateserrors

Format

A data frame containing 1,000 rows and 14 columns

id An integer giving the pirate's id number

sex A string with the pirate's self reported sex

headband A binary variable indicating whether the pirate wears a headband

age An integer giving the age of the pirate in years

college A string indicating the college the pirate went to. JSSFP stands for Jack Sparro's School of Fashion and Piraterly, while CCCC stands for Captain Chunk's Cannon Crew

tattoos An integer indicating the number of tattoos the pirate has

tchests An integer indicating the number of treasure chests found by the pirate

parrots An integer indicating the number of parrots owned by the pirate in his/her lifetime

favorite.pirate A string indicating The pirate's favorite pirate

sword.type A string indicating the type of sword the pirate uses

sword.time A number indicating how long it takes (in seconds) for the pirate to draw his/her sword. Smaller times are better!

eyepatch An integer indicating the number of eyepatches worn by the pirate

beard.length A number indicating length of the pirate's beard in centimeters

fav.pixar A string indicating Pirate's favorite pixar movie

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

pircharter

pircharter

Description

A dataframe containing travel times of chartered ships from three pirate companies to three different destinations.

Usage

```
pircharter
```

Format

A data frame containing 1000 rows and 10 columns

company (string) - The charter company: JoRo = Jolly Roger, BmcB = Boaty McBoat, MiPa = Millenium Parrot

destination (string) - The destination of the charter

time (numeric) - The travel time of the ship in hours

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

poopdeck

poopdeck

Description

A dataframe containing the amount of time it took to clean both pirate and shark poop from the poop deck using one of three different cleaning solutions

Usage

```
poopdeck
```

Format

A data frame containing 300 rows and 4 columns

day (factor) - The day that the poop deck was cleaned (1 through 10000)

cleaner (string) - The cleaning solution used

type (string) - The type of poop being cleaned

time (numeric) - The amount of time (in minutes) the cleaning took.

Source

2015 annual international pirate meeting at the Bodensee in Konstanz, Germany

recodev	<i>recodev</i>
---------	----------------

Description

This function takes a vector `original.vector`, and converts all values in a vector `old.values` to the values in a new vector `new.values`.

Usage

```
recodev(original.vector, old.values, new.values, others = NULL)
```

Arguments

<code>original.vector</code>	A vector you want to recode
<code>old.values</code>	A vector of length M.
<code>new.values</code>	A vector of length M.
<code>others</code>	An optional value indicating what to convert all values in <code>original.vector</code> that are not found in <code>old.values</code> .

Examples

```
x <- c("y", "y", "XSF", "y", "0", "X", "0", "0", "y", "n", "0", "1", "1")
recodev(
  original.vector = x,
  old.values = c("y", "1", "n", "0"),
  new.values = c(1, 1, 0, 0)
)
```

```
x <- c("y", "y", "XSF", "y", "0", "X", "0", "0", "y", "n", "0", "1", "1")
recodev(
  original.vector = x,
  old.values = c("y", "1", "n", "0"),
  new.values = c(1, 1, 0, 0),
  others = NA
)
```

transparent	<i>transparent function</i>
-------------	-----------------------------

Description

This function takes a standard color as an argument and returns a transparent version of that color

Usage

```
transparent(orig.col = "red", trans.val = 1, maxColorValue = 255)
```

Arguments

orig.col	The original color to be made transparent. Can be specified as a string or a vector of rgb values
trans.val	A number in the interval [0, 1] indicating how transparent to make the color.
maxColorValue	The maximum color value (only used when orig.col is an rgb vector)

Examples

```
# Diagram of some examples
plot(1,
     ylim = c(0, 1), xlim = c(0, 12), bty = "n",
     xaxt = "n", yaxt = "n", ylab = "", xlab = "", type = "na"
)

text(6, .9, "transparent('red', trans.val = x)")
points(
  x = 1:11, y = rep(.8, 11), pch = 16,
  col = transparent("red", seq(0, 1, .1)), cex = 2
)
text(x = 1:11, y = rep(.85, 11), seq(0, 1, .1))

text(6, .7, "transparent('red', trans.val = x)")
points(
  x = 1:11, y = rep(.6, 11), pch = 16,
  col = transparent("blue", seq(0, 1, .1)), cex = 2
)
text(x = 1:11, y = rep(.65, 11), seq(0, 1, .1))

text(6, .5, "transparent('forestgreen', trans.val = x)")
points(
  x = 1:11, y = rep(.4, 11), pch = 16,
  col = transparent("forestgreen", seq(0, 1, .1)), cex = 2
)
text(x = 1:11, y = rep(.45, 11), seq(0, 1, .1))

text(6, .3, "transparent('orchid1', trans.val = x)")
```

```
points(
  x = 1:11, y = rep(.2, 11), pch = 16,
  col = transparent("orchid1", seq(0, 1, .1)), cex = 2
)
text(x = 1:11, y = rep(.25, 11), seq(0, 1, .1))

# Scatterplot with transparent colors

a.x <- rnorm(100, mean = 0, sd = 1)
a.y <- a.x + rnorm(100, mean = 0, sd = 1)

par(mfrow = c(3, 3))

for (trans.val.i in seq(0, .1, length.out = 9)) {
  plot(a.x, a.y,
    pch = 16, col = transparent("blue", trans.val.i), cex = 1.5,
    xlim = c(-5, 5), ylim = c(-5, 5), xlab = "x", ylab = "y",
    main = paste("trans.val = ", round(trans.val.i, 2), sep = ""))
  }
}
```

yarr.guide

Opens the HTML manual for the yarr package

Description

Opens the HTML manual for the yarr package

Usage

yarr.guide()

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