Package 'IndRSA'

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aictab_ind

Perform model selection over all individuals

Description

Perform AIC model selection over all individuals by adding up likelihood of individual model (based code partly taken from package AICcmodavg)

Usage

```
aictab_ind(mod_ls, cutoff = 0, K = NULL)
```

Arguments

mod_ls A list of list of model generated by rsf_ind

cutoff A cutoff value to exclude individuals with bad fit, default = -1 indicating model

that did not converge will be excluded. Values > 0 will exclude based on coeffi-

cient values

Value

A AIC model selection table

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
aictab_ind(out)</pre>
```

bad_fit 3

bad_fit	Identify potential individual with bad fits based on coefficients and model convergence

Description

Identify potential individual with bad fits based on coefficients and model convergence

Usage

```
bad_fit(mod_ls, cutoff = 1000)
```

Arguments

mod_ls A list of list of model generated by rsf_ind

cutoff Value a coefficient may take to indicate bad fit (default=1000)

Value

A list with first element giving individuals with bad fits based on coefficients and second element containing individuals with bad fit based on convergence

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
bad_fit(out, cutoff=20) #None</pre>
```

bad_fit1

Identify potential individual with bad fits based on coefficients and model convergence for a specific model

Description

Identify potential individual with bad fits based on coefficients and model convergence

Usage

```
bad_fit1(mod_ls, cutoff = 1000, m = 1)
```

Arguments

mod_ls	A list of list of model generated by rsf_ind
cutoff	Value a coefficient may take to indicate bad fit (default=1000)
m	model number (based on number in list of formula provided to rsf_ind)

4 cmodel_ssf

Value

A list with first element giving individuals with bad fits based on coefficients and second element containing individuals with bad fit based on convergence

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
bad_fit(out, cutoff=20, m=1) #None</pre>
```

cmodel

Remove elements from glm object to save space

Description

Remove elements from glm objects (Taken from: https://www.r-bloggers.com/trimming-the-fat-from-glm-models-in-r/)

Usage

```
cmodel(cm)
```

Arguments

 cm

A glm object

Value

A glm object

cmodel_ssf

Remove elements from clogit object to save space

Description

Remove elements from glm objects

Usage

```
cmodel_ssf(cm)
```

Arguments

cm

A coxph object

Value

A coxph object

eval_ratio 5

eval_ratio	Evaluate ratio of used and random locations of individuals in a RSF table

Description

Evaluate ratio of used and random locations of individuals in a RSF table

Usage

```
eval_ratio(id, value)
```

Arguments

id A vector of individual for each observation

value A vector indicating if each observation is used (=1) or random(=0)

Value

A list indicating the range in ratio, range in random locations, and range in used location.

files2list Convert a folder with individual files to object provided by ssf_ind orsf_ind	d or
--	------

Description

This function convert a folder of individual files (for example if analysis was ran on a high performance cluster) to the same format provided by ssf_ind or rsf_ind. This facilitate the use of other functions such as aictab_ind and pop_avg.

Usage

```
files2list(lsfiles, cleanModel = F)
```

Arguments

1sfiles The list of files to be imported, for example using the dir() command.

cleanModel Whether the cleanModel function should be applied. .

Value

A list of the same format as ssf_ind or rsf_ind.

ind_coef

goats

goats - Mountain goats data set

Description

GPS collar data of mountain goats (Oreamnos americanus) from Lele and Keim (2006).

Usage

goats

Format

A data frame with 19014 rows and 8 variables

STATUS a numeric vector, 1: used, 0: available

ID a numeric vector, individuals

ELEVATION a numeric vector (m)

SLOPE a numeric vector (degrees, steep)

ET a numeric vector, access to escape terrain (distance from steep slopes, m)

ASPECT a numeric vector (degrees)

HLI a numeric vector, heat load index (0-1)

TASP a numeric vector, transformed aspect

ind_coef

Extract individual coefficients

Description

Extract individual coefficients.

Usage

```
ind_coef(m = 1, mod_ls, cutoff = 0, id_year = F)
```

Arguments

m model number (based on number in list of formula provided to rsf_ind)

mod_ls A list of list of model generated by rsf_ind

cutoff A cutoff value to exclude individuals with bad fit, default = -1 indicating model

that did not converge will be excluded. Values > 0 will exclude based on coeffi-

cient

id_year Whether id_year (instead of individual) are provided. Individual and year needs

to be separated by an underscore for the function to work properly.

Value

A table of individual coefficients

ind_se 7

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
ind_coef(m=1, out)</pre>
```

ind_se

Extract individual standard errors

Description

Extract individual standard errors

Usage

```
ind_se(m = 1, mod_ls, cutoff = 0, id_year = F)
```

Arguments

m	model number (based on number in list of formula provided to rsf_ind)
mod_ls	A list of list of model generated by rsf_ind
cutoff	A cutoff value to exclude individuals with bad fit, default = -1 indicating model that did not converge will be excluded. Values > 0 will exclude based on coefficient
id_year	Whether id_year (instead of individual) are provided. Individual and year needs to be separated by an underscore for the function to work properly.

Value

A table of individual standard errors for each coefficients

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
ind_se(m=1, out)</pre>
```

8 kfold_ind

kfoldRSF

Perform kfold cross-validation on a RSF output.

Description

Perform kfold cross-validation on a RSF output. Similar to what is recommended in Boyce 2002. Function developed with Mathieu Basille

Usage

```
kfoldRSF(
  mod,
  k = 5,
  nrepet = 10,
  nbins = 10,
  jitter = TRUE,
  random = TRUE,
  method = method,
  x = m,
  form_ls = ls,
  reproducible = TRUE
)
```

Arguments

mod A RSF model (glm or glmer)
k number of fold (default = 5)
nrepet Number of repetitions (default =10)
nbins Number of bins (default =10)

jitter Logical, whether to add some random noise to the predictions (useful when the model is fitted on categorical variables, which can produces error in the ranking process).

reproducible Logical, whether to use a fixed seed for each repetition.

Value

A data frame with the correlations (cor) and the type of value (type).

kfold_ind

 $Perform\ kfold\ cross-validation\ at\ the\ individual\ level\ .$

Description

Perform kfold cross-validation at the individual level and return histogram, mean kfold accros individual and min/max value

pop_avg 9

Usage

```
kfold_ind(
    m = 1,
    mod_ls,
    ls = ls,
    cutoff = 0,
    k = 5,
    nrepet = 5,
    nbins = 10,
    grph = T
)
```

Arguments

model number (based on number in list of formula provided to rsf_ind) mod_1s A list of list of model generated by rsf_ind cutoff A cutoff value to exclude individuals with bad fit, default = -1 indicating model that did not converge will be excluded. Values > 0 will exclude based on coeffinumber of fold (default = 5) k Number of repetitions (default =10) nrepet nbins Number of bins (default =10) jitter Logical, whether to add some random noise to the predictions (useful when the model is fitted on categorica variables, which can produces error in the ranking process).

reproducible Logical, whether to use a fixed seed for each repetition.

Value

A data frame with the correlations (cor) and the type of value (type).

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
kfold_ind(m=1, out, ls=ls1)</pre>
```

pop_avg Extract population average of top model and extract individual coefficients

Description

Extract population average of top model and extract individual coefficients. Population average can be calculated based on bootstrap (Prokopenko et al. 2016 JAppEco) or weighted based on standard errors (Murtaugh 2007 Ecology)

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Usage

```
pop_avg(
    m = 1,
    mod_ls,
    cutoff = 0,
    nudge = 0.01,
    method = "murtaugh",
    nboot = 1000,
    id_year = F
)
```

Arguments

m	model number (based on number in list of formula provided to rsf_ind)
mod_ls	A list of list of model generated by rsf_ind
cutoff	A cutoff value to exclude individuals with bad fit, default = -1 indicating model that did not converge will be excluded. Values > 0 will exclude based on coefficient
method	If = "boot", population average is based on bootstrap, if = "murtaugh" based on standard errors weighting. See Prokopenko et al 2016 or Murtaugh 2007 for details.
nboot	Number of bootstrap iterations, default = 1000. Only applicable if method = "boot".
id_year	Whether id_year (instead of individual) are provided. Individual and year needs to be separated by an underscore for the function to work properly.

Value

A list containing a table population average with confidence intervals and a table of individual coefficients

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
pop_avg(m=1, out, method="murtaugh")</pre>
```

resample_rsf Resample a RSF table to keep constant ratio of used/random locations across individuals

Description

Resample a RSF table to keep constant ratio of used/random locations across individuals. Resampling is done with replacement.

rf 11

Usage

```
resample_rsf(data, id = "Id_Year", value = "Value", ratio = 3)
```

Arguments

data The RSF dataset to resample

id A vector of individual for each observation

value A vector indicating if each observation is used (=1) or random(=0)

ratio The ratio of random:used location (default =3, meaning 3 random locations for

each used location)

Value

A RSF dataset

rf

Extraction of proximity from random forest classification

Description

Apply random forest classification

Usage

```
rf(coef, ntree = 10000, ...)
```

Arguments

coef

A matrix of model coefficient (from function ind_coef)

Value

A proximity matrix

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
prox<-rf(coef)</pre>
```

rm_bad_fit1

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1 1111	vau	110

Remove potential individual with bad fits based on coefficients

Description

Remove potential individual with bad fits based on coefficients

Usage

```
rm_bad_fit(mod_ls, cutoff = 1000)
```

Arguments

mod_ls A list of list of model generated by rsf_ind

cutoff Value a coefficient may take to indicate bad fit (default=1000)

Value

A list excluding individual with bad fits.

rm_bad_fit1	Remove p	otential	indivia
-------------	----------	----------	---------

Remove potential individual with bad fits based on coefficients for a specific model

Description

Remove potential individual with bad fits based on coefficients

Usage

```
rm_bad_fit1(mod_ls, cutoff = 1000, m = 1)
```

Arguments

mod_ls	A list of list of model genera	ted by rsf_ind
--------	--------------------------------	----------------

cutoff Value a coefficient may take to indicate bad fit (default=1000)

m model number (based on number in list of formula provided to rsf_ind)

Value

A list excluding individual with bad fits.

rm_conv_fit 13

 rm_conv_fit

Remove potential individual with bad fits based on model convergence

Description

Remove potential individual with bad fits based on model convergence

Usage

```
rm_conv_fit(mod_ls)
```

Arguments

 mod_ls

A list of list of model generated by rsf_ind

Value

A list excluding individual with bad fits.

rm_conv_fit1

Remove potential individual with bad fits based on model convergence for a specific model

Description

Remove potential individual with bad fits based on model convergence

Usage

```
rm\_conv\_fit1(mod\_ls, m = 1)
```

Arguments

m

model number (based on number in list of formula provided to rsf_ind)

Value

A list excluding individual with bad fits.

14 rsf_mod

rsf_ind	Apply a list of candidate models to multiple individuals
---------	--

Description

Apply rsf_mod to each individual of a dataset

Usage

```
rsf_ind(id, data, form_ls, cleanModel = F, method = "glm.fit")
```

Arguments

id A vector indicating the individuals data The dataset containing all data

form_ls A list of formulas for the different candidate models

method Weither typical glm or bias-reduction glm should be fitted (default="glm.fit) (see

package brglm)

cleamModel Whether the model should be "cleaned" to save memory space (default = F)

Value

A list of list of glm objects

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)</pre>
```

rsf_mod

Apply a list of candidate RSF models to a single individual

Description

Apply a list of candidate RSF models to a single individual

Usage

```
rsf_mod(sub, form_ls, cleanModel = F, method = method)
```

Arguments

sub A subset of data from a single individual

form_ls A list of formulas for the different candidate models

method Weither typical glm or bias-reduction glm should be fitted (see package brglm)

cleamModel Whether the model should be "cleaned" to save memory space

simu_avg 15

Value

A list of glm objects

simu_avg

Un-weighted population average based on simulated coefficients

Description

Calculate population average for each replicate of simulated coefficients

Usage

```
simu_avg(simu)
```

Arguments

simu

An array of simulated individual coefficients based on their uncertainties(output of simu_coefs)

Value

A matrix of population averages (one value for each covariates and replicates)

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)
avg<-simu_avg(simu)
colnames(avg)<-names(coef)
head(avg)
apply(avg, 2, quantile, na.rm=T) #Show variation around estimate of each covariate
colMeans(avg) #Calculate average population average</pre>
```

simu_coefs

Simulate normally-distributed individual coefficients from RSF/SSF based on their standard errors

Description

Simulate individual coefficients based on standard errors (to propagate uncertainty)

Usage

```
simu\_coefs(coef, se, n = 1000)
```

16 simu_cons2

Arguments

coef A matrix of individual coefficients (output of ind_se)

n Number of random coefficients to generate for each individual (default=1000)

Value

An array of individual coefficients

Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
ls1[[2]]<-as.formula(STATUS~ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m1, out)
simu<-simu_coefs(coef, se, n=100)</pre>
```

simu_cons2

Temporal consistency (with TWO time periods) based on simulated coefficients

Description

Calculate temporal consistency for each replicate of simulated coefficients

Usage

```
simu_cons2(simu, col1, col2)
```

Arguments

simu	An array of simulated individual coefficients based on their uncertainties(output of simu_coefs)
col1	Column of the variable of interest for the 1st temporal period
col2	Column of the variable of interest for the 2nd temporal period

Value

A matrix of consistency (one value for each covariates and replicates)

```
data(goats)
goats$Season<-c("1", "2")
ls1<-list()
ls1[[1]]<-as.formula(STATUS~(ELEVATION+SLOPE+ET+ASPECT+HLI+TASP):Season)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)</pre>
```

simu_cons3 17

```
head(coef)
cons_elevation<-simu_cons2(simu, 3, 4) #Calculate specialization for elevation covariate
quantile(cons_elevation) #Show variation around estimate of elevation covariate
mean(cons_elevation) #Calculate average consistency for elevation covariate
```

simu_cons3	Temporal consistency (with THREE time periods) based on simulated coefficients
------------	--

Description

Calculate temporal consistency for each replicate of simulated coefficients

Usage

```
simu_cons3(simu, col1, col2, col3)
```

Arguments

simu	An array of simulated individual coefficients based on their uncertainties(output of simu_coefs)
col1	Column of the variable of interest for the 1st temporal period
col2	Column of the variable of interest for the 2nd temporal period
col3	Column of the variable of interest for the 3rd temporal period

Value

A matrix of consistency (one value for each covariates and replicates)

```
data(goats)
goats$Season<-c("1", "2", "3")
ls1<-list()
ls1[[1]]<-as.formula(STATUS~(ELEVATION+SLOPE+ET+ASPECT+HLI+TASP):Season)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)
head(coef)
cons_elevation<-simu_cons3(simu, 3, 4,5) #Calculate specialization for elevation covariate
quantile(cons_elevation) #Show variation around estimate of elevation covariate
mean(cons_elevation) #Calculate average consistency for elevation covariate</pre>
```

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simu_rev2 Temporal reversal (with TWO time periods) based on simulated coef- ficients	
--	--

Description

Calculate temporal reversal for each replicate of simulated coefficients

Usage

```
simu_rev2(simu, col1, col2)
```

Arguments

simu	An array of simulated individual coefficients based on their uncertainties(output
	of simu_coefs)
col1	Column of the variable of interest for the 1st temporal period
col2	Column of the variable of interest for the 2nd temporal period

Value

A matrix of reversal (one value for each covariates and replicates)

Examples

```
data(goats)
goats$Season<-c("1", "2")
ls1<-list()
ls1[[1]]<-as.formula(STATUS~(ELEVATION+SLOPE+ET+ASPECT+HLI+TASP):Season)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)
head(coef)
rev_elevation<-simu_rev2(simu, 3, 4) #Calculate specialization for elevation covariate
quantile(rev_elevation) #Show variation around estimate of elevation covariate
mean(rev_elevation) #Calculate average reversal for elevation covariate</pre>
```

simu_rev3	Temporal reversal (with THREE time periods) based on simulated co-
	efficients

Description

Calculate temporal reversal for each replicate of simulated coefficients

Usage

```
simu_rev3(simu, col1, col2, col3)
```

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Arguments

simu	An array of simulated individual coefficients based on their uncertainties(output of simu_coefs)
col1	Column of the variable of interest for the 1st temporal period
col2	Column of the variable of interest for the 2nd temporal period
col3	Column of the variable of interest for the 3rd temporal period

Value

A matrix of reversal (one value for each covariates and replicates)

Examples

```
data(goats)
goats$Season<-c("1", "2", "3")
ls1<-list()
ls1[[1]]<-as.formula(STATUS~(ELEVATION+SLOPE+ET+ASPECT+HLI+TASP):Season)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)
head(coef)
rev_elevation<-simu_rev3(simu, 3, 4,5) #Calculate specialization for elevation covariate
quantile(rev_elevation) #Show variation around estimate of elevation covariate
mean(rev_elevation) #Calculate average reversal for elevation covariate</pre>
```

simu_sd

Individual variation (Heterogeneity) based on simulated coefficients

Description

Calculate heterogeneity for each replicate of simulated coefficients

Usage

```
simu_sd(simu)
```

Arguments

simu

An array of simulated individual coefficients based on their uncertainties(output of simu_coefs)

Value

A matrix of heterogeneity (one value for each covariates and replicates)

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Examples

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)
sd<-simu_sd(simu)
colnames(sd)<-names(coef)
head(sd)
apply(sd, 2, quantile, na.rm=T) #Show variation around estimate of each covariate
colMeans(sd) #Calculate average heterogeneity for each covariate</pre>
```

simu_spe

Specialization based on simulated coefficients

Description

Calculate specialization for each replicate of simulated coefficients

Usage

```
simu_spe(simu)
```

Arguments

simu

An array of simulated individual coefficients based on their uncertainties(output of simu_coefs)

Value

A matrix of specialization (one value for each covariates and replicates)

```
data(goats)
ls1<-list()
ls1[[1]]<-as.formula(STATUS~ELEVATION+SLOPE+ET+ASPECT+HLI+TASP)
out<-rsf_ind(goats$ID, data=goats, form_ls=ls1)
coef<-ind_coef(m=1, out)
se<-ind_se(m=1, out)
simu<-simu_coefs(coef, se, n=100)
spe<-simu_spe(simu)
colnames(spe)<-names(coef)
head(spe)
apply(spe, 2, quantile, na.rm=T) #Show variation around estimate of each covariate
colMeans(spe) #Calculate average specialization for each covariate</pre>
```

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ssf_ind Apply a list of SSF candidate models to multiple individuals	
--	--

Description

Apply ssf_mod to each individual of a dataset

Usage

```
ssf_ind(id, data, form_ls, cleanModel = T, method = "approximate")
```

Arguments

id A vector indicating the individuals data The dataset containing all data

form_ls A list of formulas for the different candidate models

method Whether exact or approximate ML should be performed (see package survival) cleamModel Whether the model should be "cleaned" to save memory space (default = F)

Value

A list of of coxph objects

ssf_mod	Apply a list of candidate SSF models to a single individual	

Description

Apply a list of candidate SSF models to a single individual

Usage

```
ssf_mod(sub, form_ls, cleanModel = F, method = "approximate")
```

Arguments

sub A subset of data from a single individual

form_ls A list of formulas for the different candidate models

method Whether exact or approximate ML should be performed (see package survival)

cleamModel Whether the model should be "cleaned" to save memory space

Value

A list of coxph objects

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