

Package ‘specieshindex’

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Type Package

Title How (scientifically) popular is a given species?

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Description Finds the h-index of a species.

Depends R (\geq 3.5.0)

LazyData true

Imports rscopus,

wosr,
rbace,
lens2r,
taxize,
dplyr,
data.table,
httr,
XML,
jsonlite,
ggplot2,
ggpubr

Suggests testthat,

knitr,
roxygen2,
devtools,
rmarkdown,
RefManageR

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URL <https://github.com/jessicatytam/specieshindex>

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Encoding UTF-8

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Allindices	<i>Index summary</i>
------------	----------------------

Description

This function returns a dataframe of the summary of all of the indices.

Usage

```
Allindices(data, genus, species, sourcetype = 0)
```

Arguments

data	The dataframe generated from FetchSpT or FetchSpTAK .
genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
sourcetype	Source type; default is 0, enter 1 to add SourceType variables.

Value

A datarame of all of the indices in the package.

Examples

```
data(Woylie)
Allindices(Woylie, genus = "genus_name", species = "species_name", sourcetype = 0)
```

CountSpT	<i>Search count from Scopus - title only</i>
----------	--

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via [gnr.resolve](#) to validate the genus and species names.

Usage

```
CountSpT(
  genus,
  species,
  synonyms,
  additionalkeywords,
  APIkey,
  datatype = "application/xml"
)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
APIkey	Scopus API key needed to access and download data from their database.
datatype	Formats the URL to be sent to the API. The default is "application/xml".

Value

Search count of the species with the given `genus` and `species`.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpT("Bettongia", "penicillata", APIkey = "myAPI")

#lower case letter in genus is also accepted and will return identical results

CountSpT("bettongia", "penicillata", APIkey = "myAPI")

## End(Not run)
## Not run:
CountSpT("Bettongia", "penicillata", "conserv*", "myAPI")

#lower case letter in genus is also accepted and will return identical results

CountSpT("bettongia", "penicillata", "conserv*", "myAPI")

## End(Not run)
```

CountSpTAK

Search count from Scopus - title, abstract, and keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract, and keywords. A check will be conducted via [gnr_resolve](#) to validate the genus and species names.

Usage

```
CountSpTAK(
  genus,
  species,
  synonyms,
  additionalkeywords,
  APIkey,
  datatype = "application/xml"
)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
APIkey	Scopus API key needed to access and download data from their database.
datatype	Formats the URL to be sent to the API. The default is "application/xml".

Value

Search count of the species with the given `genus` and `species`.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpTAK("Bettongia", "penicillata", APIkey = "myAPI")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK("bettongia", "penicillata", APIkey = "myAPI")

## End(Not run)
## Not run:
CountSpTAK("Bettongia", "penicillata", "conserv*", "myAPI")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK("bettongia", "penicillata", "conserv*", "myAPI")

## End(Not run)
```

CountSpTAK_base

Search count from BASE - title, abstract and author keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract and author keywords. A check will be conducted via [gnr_resolve](#) to validate the genus and species names.

Usage

```
CountSpTAK_base(genus, species, synonyms, additionalkeywords)
```

Arguments

```
genus          Genus classification from the binomial name.
species        Species classification from the binomial name.
synonyms       Alternate species names.
additionalkeywords Optional search terms.
```

Value

Search count of the species with the given `genus` and `species`.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpTAK_base("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_base("bettongia", "penicillata")

## End(Not run)
## Not run:
CountSpTAK_base("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_base("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpTAK_lens

Search count from Lens - title, abstract and author keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract and author keywords. A check will be conducted via [gnr_resolve](#) to validate the genus and species names.

Usage

```
CountSpTAK_lens(
  genus,
  species,
  synonyms,
  additionalkeywords,
  size = 50000,
  token
)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
size	Maximum number of documents that can be downloaded depending on the users token. Default is set to 50,000 for subscribers, the alternative is 1,000 for non-subscribers.
token	Lens token needed to access and download data from their database.

Value

Search count of the species with the given `genus` and `species`.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpTAK_lens("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_lens("bettongia", "penicillata")

## End(Not run)
## Not run:
CountSpTAK_lens("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_lens("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpTAK_wos	<i>Search count from Web of Science - title, abstract and author keywords</i>
----------------	---

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract and author keywords. A check will be conducted via [gnr_resolve](#) to validate the genus and species names.

Usage

```
CountSpTAK_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpTAK_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_wos("bettongia", "penicillata")

## End(Not run)
## Not run:
CountSpTAK_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpT_base	<i>Search count from BASE - title only</i>
---------------	--

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via [gnr.resolve](#) to validate the genus and species names.

Usage

```
CountSpT_base(genus, species, synonyms, additionalkeywords)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpT_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata")

## End(Not run)
## Not run:
CountSpT_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpT_lens	<i>Search count from Lens - title only</i>
---------------	--

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via [gnr_resolve](#) to validate the genus and species names.

Usage

```
CountSpT_lens(
  genus,
  species,
  synonyms,
  additionalkeywords,
  size = 50000,
  token
)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
size	Maximum number of documents that can be downloaded depending on the users token. Default is set to 50,000 for subscribers, the alternative is 1,000 for non-subscribers.
token	Lens token needed to access and download data from their database.

Value

Search count of the species with the given `genus` and `species`.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpT_lens("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results
```

```

CountSpT_lens("bettongia", "penicillata")

## End(Not run)
## Not run:
CountSpT_lens("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_lens("bettongia", "penicillata", "conserv*")

## End(Not run)

```

CountSpT_wos	<i>Search count from Web of Science - title only</i>
--------------	--

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via [gnr_resolve](#) to validate the genus and species names.

Usage

```
CountSpT_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. *F1000Research*, 2, 191.

Examples

```
## Not run:
CountSpT_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata")

## End(Not run)
## Not run:
CountSpT_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

FetchSpT

Fetch data from Scopus - title only

Description

This function fetches citation information from Scopus using genus and species name found in the title of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpT(genus, species, synonyms, additionalkeywords, language = 0, APIkey)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
language	Language of the paper; default is 0, enter 1 to retrieve the variable.
APIkey	Scopus API key needed to access and download data from their database.

Value

A dataframe of the species' citation records with the given genus and species.

Examples

```
## Not run:
FetchSpT("Bettongia", "penicillata", APIkey = "myAPI")

#lower case letter in genus is also accepted and will return identical results

FetchSpT("bettongia", "penicillata", APIkey = "myAPI")

## End(Not run)
## Not run:
FetchSpT("Bettongia", "penicillata", "conserv*", "myAPI")

#lower case letter in genus is also accepted and will return identical results

FetchSpT("bettongia", "penicillata", "conserv*", "myAPI")

## End(Not run)
```

FetchSpTAK

Fetch data from Scopus - title, abstract and keywords

Description

This function fetches citation information from Scopus using genus and species name found in the title, abstract and keywords of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpTAK(genus, species, synonyms, additionalkeywords, language = 0, APIkey)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
language	Language of the paper; default is 0, enter 1 to retrieve the variable.
APIkey	Scopus API key needed to access and download data from their database.

Value

A dataframe of the species' citation records with the given genus and species.

Examples

```
## Not run:
FetchSpTAK("Bettongia", "penicillata", APIkey = "myAPI")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK("bettongia", "penicillata", APIkey = "myAPI")

## End(Not run)
## Not run:
FetchSpTAK("Bettongia", "penicillata", "conserv*", "myAPI")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK("bettongia", "penicillata", "conserv*", "myAPI")

## End(Not run)
```

FetchSpTAK_lens	<i>Fetch data from Lens - title, abstract, and keywords.</i>
-----------------	--

Description

This function fetches citation information from Lens using genus and species name found in the title, abstract, and keywords of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpTAK_lens(
  genus,
  species,
  synonyms,
  additionalkeywords,
  token,
  size = 50000
)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
token	Lens token needed to access and download data from their database.
size	Maximum number of documents that can be downloaded depending on the users token. Default is set to 50,000 for subscribers, the alternative is 1,000 for non-subscribers.

Value

A dataframe of the species' citation records with the given `genus` and `species`.

Examples

```
## Not run:
FetchSpTAK_lens("Bettongia", "penicillata", token = "mytoken")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK_lens("bettongia", "penicillata", token = "mytoken")

## End(Not run)
## Not run:
FetchSpTAK_lens("Bettongia", "penicillata", "conserv*", token = "mytoken")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK_lens("bettongia", "penicillata", "conserv*", token = "mytoken")

## End(Not run)
```

FetchSpTAK_wos	<i>Fetch data from Web of Science - title, abstract and author keywords.</i>
----------------	--

Description

This function fetches citation information from Web of Science using genus and species name found in the title, abstract and author keywords of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpTAK_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

<code>genus</code>	Genus classification from the binomial name.
<code>species</code>	Species classification from the binomial name.
<code>synonyms</code>	Alternate species names.
<code>additionalkeywords</code>	Optional search terms.

Value

A dataframe of the species' citation records with the given `genus` and `species`.

Examples

```
## Not run:
FetchSpTAK_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK_wos("bettongia", "penicillata")

## End(Not run)
## Not run:
FetchSpTAK_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

FetchSpT_lens	<i>Fetch data from Lens - title only</i>
---------------	--

Description

This function fetches citation information from Lens using genus and species name found in the title of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpT_lens(
  genus,
  species,
  synonyms,
  additionalkeywords,
  token,
  size = 50000
)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.
token	Lens token needed to access and download data from their database.
size	Maximum number of documents that can be downloaded depending on the users token. Default is set to 50,000 for subscribers, the alternative is 1,000 for non-subscribers.

Value

A dataframe of the species' citation records with the given genus and species.

Examples

```
## Not run:
FetchSpT_lens("Bettongia", "penicillata", token = "mytoken")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_lens("bettongia", "penicillata", token = "mytoken")

## End(Not run)
## Not run:
FetchSpT_lens("Bettongia", "penicillata", "conserv*", token = "mytoken")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_lens("bettongia", "penicillata", "conserv*", token = "mytoken")

## End(Not run)
```

FetchSpT_wos

Fetch data from Web of Science - title only

Description

This function fetches citation information from Web of Science using genus and species name found in the title of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpT_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

genus	Genus classification from the binomial name.
species	Species classification from the binomial name.
synonyms	Alternate species names.
additionalkeywords	Optional search terms.

Value

A dataframe of the species' citation records with the given genus and species.

Examples

```
## Not run:
FetchSpT_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_wos("bettongia", "penicillata")

## End(Not run)
## Not run:
FetchSpT_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

Koala

Koala dataset

Description

Citation records of koala (*Phascolarctos cinereus*) from Scopus. Data was retrieved on 10 July 2020.

Usage

Koala

Format

A data frame with 773 rows and 20 variables

Source

<http://api.elsevier.com/content/search/scopus>

languages

Languages

Description

List of languages of documents found on Scopus. Data was retrieved on 9 March 2021.

Usage

languages

Format

A csv file with the complete list of languages of documents found on Scopus.

Source

<https://www.elsevier.com/solutions/scopus/how-scopus-works/content>

Platypus	<i>Platypus dataset</i>
----------	-------------------------

Description

Citation records of platypus (*Ornithorhynchus anatinus*) from Scopus. Data was retrieved on 10 July 2020.

Usage

Platypus

Format

A data frame with 321 rows and 20 variables

Source

<http://api.elsevier.com/content/search/scopus>

plotAllindices	<i>Plot</i>
----------------	-------------

Description

Plots the data of a single species or combined.

Usage

```
plotAllindices(data)
```

Arguments

data The dataframe generated from [Allindices](#).

Value

ggplot

Examples

```
W <- Allindices(Woylie, genus = "Bettongia", species = "penicillata")
Q <- Allindices(Quokka, genus = "Setonix", species = "brachyurus")
P <- Allindices(Platypus, genus = "Ornithorhynchus", species = "anatinus")
K <- Allindices(Koala, genus = "Phascolarctos", species = "cinereus")
CombineSp <- dplyr::bind_rows(W, Q, P, K)
plotAllindices(CombineSp)
```

Quokka

Quokka dataset

Description

Citation records of quokka (*Setonix brachyurus*) from Scopus. Data was retrieved on 10 July 2020.

Usage

Quokka

Format

A data frame with 242 rows and 20 variables

Source

<http://api.elsevier.com/content/search/scopus>

Source Type

Source type

Description

This function calculates the total number of items for each document type.

Usage

Source Type(data)

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

A dataframe with each document and their counts.

Examples

```
data(Woylie)
SourceType(Woylie)
```

SpH5	<i>Species h5 index</i>
------	-------------------------

Description

This function calculates the h-index of a species in the past 5 years.

Usage

```
SpH5(data)
```

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

H5 index.

References

Suzuki, H. (2012). *Google Scholar Metrics for Publications*. Retrieved from <https://scholar.googleblog.com/2012/04/google-scholar-metrics-for-publications.html>.

Examples

```
data(Woylie)
SpH5(Woylie)
```

SpHAfterdate	<i>Species h-index with a given time frame</i>
--------------	--

Description

This function calculates the h-index using a given date up till the newest record.

Usage

```
SpHAfterdate(data, date)
```

Arguments

`data` The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).
`date` The lower limit of the timeframe.

Value

H-index of the given time period.

Examples

```
data(Woylie)
SpHAfterdate(Woylie, "2000-01-01")
```

SpHindex	<i>Species h-index</i>
----------	------------------------

Description

This function calculates the h-index of a species.

Usage

```
SpHindex(data)
```

Arguments

`data` The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

H-index.

References

Bertoli-Barsotti, L. & Lando, T. (2015). On a formula for the h-index. *Journal of Informetrics*, 9(4), 762-776.
Hirsch, J. (2005). An index to quantify an individual's scientific research output. *Proceedings of the National Academy of Sciences of the United States of America*, 102(46), 16569-16572.

Examples

```
data(Woylie)
SpHindex(Woylie)
```

Spi10	<i>Species i10 index</i>
-------	--------------------------

Description

This function calculates the i10 index of a species. i10 index counts all of the publications with 10 or more citations.

Usage

```
Spi10(data)
```

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

i10 index.

References

Cornell University (2019). *i10-index*. Retrieved from <https://guides.library.cornell.edu/c.php?g=32272&p=203393>.

Examples

```
data(Woylie)
Spi10(Woylie)
```

SpMindex	<i>Species m-index</i>
----------	------------------------

Description

This function calculates the m-index of species. M-index uses the h-index and divides it by the number of years of activity.

Usage

```
SpMindex(data)
```

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

M-index.

References

University of Pittsburgh (2019). *Research Impact and Metrics: Author metrics*. Retrieved from <https://pitt.libguides.com/bibliometricIndicators/AuthorMetrics>.

Examples

```
data(Woylie)
SpMindex(Woylie)
```

TotalCite	<i>Total citations</i>
-----------	------------------------

Description

This function calculates the total number of citations.

Usage

```
TotalCite(data)
```

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

A numerical value of the total number of citations.

Examples

```
data(Woylie)
TotalCite(Woylie)
```

TotalJournals	<i>Total journals</i>
---------------	-----------------------

Description

This function calculates the total number of journals.

Usage

```
TotalJournals(data)
```

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

An integer of the total number of journals.

Examples

```
data(Woylie)
TotalJournals(Woylie)
```

TotalPub	<i>Total publications</i>
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Description

This function calculates the total number of publications.

Usage

```
TotalPub(data)
```

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

An integer of the total number of publications.

Examples

```
data(Woylie)
TotalPub(Woylie)
```

Woylie

Woylie dataset

Description

Citation records of woylie (*Bettongia penicillata*) from Scopus. Data was retrieved on 10 July 2020.

Usage

Woylie

Format

A data frame with 113 rows and 20 variables

Source

<http://api.elsevier.com/content/search/scopus>

YearsPublishing

Years since first publication

Description

The number of years since the first publication in relation to the species.

Usage

YearsPublishing(data)

Arguments

data The dataframe generated from [FetchSpT](#) or [FetchSpTAK](#).

Value

Number of years.

Examples

```
data(Woylie)
YearsPublishing(Woylie)
```

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