

# Package ‘iuropa’

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**Title** An R Interface to the IUROPA API

**Version** 0.1.0

## Description

This package includes tools for downloading data from the IUROPA CJEU Database and for interacting with the IUROPA API. The CJEU Database currently includes the CJEU Database Platform and the CJEU Text Corpus. This package also includes a variety of useful tools for working with CJEU data.

**URL** <https://github.com/jfjelstul/iuropa>

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**License** MIT + file LICENSE

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authenticate	<i>Authenticate with the IUROPA API</i>
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**Description**

This function allows users with a IUROPA account to authenticate with the IUROPA API in order to access components of the IUROPA CJEU Database that have not yet been publically released. This function creates a session. You need to provide your IUROPA username and password to authenticate.

**Usage**

```
authenticate(username, password)
```

**Arguments**

username	A string. Your IUROPA username.
password	A string. Your IUROPA password.

**Value**

This function returns an object of class `iuropa_session` that contains the credentials necessary to access password-protected data from the IUROPA API. You can pass this session object into any function that takes a session argument. If your session times out, you will need to run this function again to create a new session. You can have multiple active sessions at the same time.

**Examples**

```
## Not run:  
session <- authenticate(  
  username = "USERNAME",  
  password = "PASSWORD"  
)  
## End(Not run)
```

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check_authentication	<i>Check authentication with the IUROPA API</i>
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**Description**

This function checks whether you are currently authenticated with the IUROPA API. You need to provide an object of class `iuropa_session` created by the function `authenticate()`.

**Usage**

```
check_authentication(session)
```

**Arguments**

session	An object of class <code>iuropa_session</code> created by <code>authenticate()</code> .
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**Value**

This function prints a message to the console but does not return an object.

**Examples**

```
## Not run:
session <- authenticate(
  username = "USERNAME",
  password = "PASSWORD"
)

check_authentication(session)
## End(Not run)
```

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describe_components	<i>Describe the components in the IUROPA CJEU Database</i>
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**Description**

The IUROPA CJEU Database includes a number of components. This function provides descriptions of the components that are currently available via the IUROPA API.

**Usage**

```
describe_components()
```

**Value**

This function returns a tibble. There is one observation per component.

**Examples**

```
## Not run:
out <- describe_components()
## End(Not run)
```

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describe_tables	<i>Describe the tables in a component</i>
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**Description**

This function provides descriptions of the tables that are currently available in a particular component of the IUROPA CJEU Database. You have to specify the code for a component. The values returned by `list_components()` are the values that are valid for this argument.

**Usage**

```
describe_tables(session = NULL, component)
```

**Arguments**

session	An object of class <code>iuropa_session</code> created by <code>authenticate()</code> . This argument is only required for components that are not yet publicly available.
component	A string. The code for a component. Use <code>list_components()</code> to get a list of valid values.

**Value**

This function returns a tibble. There is one observation per table in the specified component.

**Examples**

```
## Not run:
out <- describe_tables(
  component = "cjeu_database_platform"
)
## End(Not run)
```

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describe_variables	<i>Describe the variables in a table</i>
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**Description**

This function provides descriptions for the variables that are currently available in a particular table in a component of the IUROPA CJEU Database. You have to specify the code for a component and the name of a table in that component. The values returned by `list_components()` and `list_tables()` are the values that are valid for these arguments.

**Usage**

```
describe_variables(session = NULL, component, table)
```

**Arguments**

session	An object of class <code>iuropa_session</code> created by <code>authenticate()</code> . This argument is only required for components that are not yet publicly available.
component	A string. The code for a component. Use <code>list_components()</code> to get a list of valid values.
table	A string. The name of a table in the specified component. Use <code>list_tables()</code> to get a list of valid values.

**Value**

This function returns a tibble. There is one observation per variable in the specified table.

## Examples

```
## Not run:
out <- describe_variables(
  component = "cjeu_database_platform",
  table = "decisions"
)
## End(Not run)
```

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download\_data

*Download IUROPA data*


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## Description

This function allows you to download data from the IUROPA CJEU Database via the IUROPA API. This function provides the same functionality as the IUROPA Download Tool, which is available in the IUROPA web app. You need to choose a component in the IUROPA CJEU Database and a table in that component. For example, you could choose the decisions table of the CJEU Database Platform. You can specify filters to select specific observations and you can select specific variables. You can use `describe_variables()` to learn more about the variables available in each table.

## Usage

```
download_data(
  session = NULL,
  component,
  table,
  filters = NULL,
  variables = NULL
)
```

## Arguments

session	An object of class <code>iuropa_session</code> created by <code>authenticate()</code> . This argument is only required for components that are not yet publicly available.
component	A string. The code for a component. Use <code>list_components()</code> to get a list of valid values.
table	A string. The name of a table in the specified component. Use <code>list_tables()</code> to get a list of valid values.
filters	A named list. The default is <code>NULL</code> . Each element in the list specifies a filter to apply to the data. The name of each element should be the name of a variable in the specified table and the corresponding value should be a value or vector of values that the variable can take. The results will only include observations where the variable equals one of the provided values. If you specify multiple filters, the results will only include observations that match all of the filters. For numeric variables, you can add <code>_min</code> or <code>_max</code> to the end of the variable name to specify a minimum or maximum value. The API will ignore invalid filters.
variables	A string vector. The default is <code>NULL</code> . The results will only include the variables in the vector. Use <code>list_variables()</code> to get a list of valid values. The function will throw an error if you provide an invalid variable name.

## Details

The IUROPA API has a rate limit, so this function downloads data from the IUROPA API in batches. It downloads 25,000 observations every 5 seconds. It prints a message to the console that indicates how many observations you have requested and approximately how long it will take to download the data. It also prints a message after every batch that indicates the current progress. After your download is complete, it will print the suggested citations for the data. Please use these citations if you use the data in a paper.

## Value

This function returns a tibble containing the requested data.

## Examples

```
## Not run:
out <- download_data(
  component = "cjeu_database_platform",
  table = "decisions",
  filters = list(
    court = c("Court of Justice", "General Court")
  )
)

out <- download_data(
  session = session,
  component = "cjeu_database_platform",
  table = "assignments",
  filters = list(
    court = "Court of Justice",
    decision_date_min = "2015-01-01"
  ),
  variables = c("iuropa_decision_id", "iuropa_judge_id", "judge")
)
## End(Not run)
```

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list\_components

---

*List the components in the IUROPA CJEU Database*


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## Description

The IUROPA CJEU Database includes a number of components. This function lists the components that are currently available via the IUROPA API. A number of functions in the iuropa package have a component argument. The values returned by list\_components() are the values that are valid for this argument.

## Usage

```
list_components()
```

## Value

This function returns a string vector containing the names of the components that are currently available via the IUROPA API.

## Examples

```
## Not run:  
out <- list_components()  
## End(Not run)
```

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list_tables	<i>List the tables in a component</i>
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## Description

This function lists the tables that are currently available in a particular component of the IUROPA CJEU Database. You have to specify the code for a component. The values returned by `list_components()` are the values that are valid for this argument. A number of functions in the `iuropa` package have a `tables` argument. The values returned by `list_tables()` are the values that are valid for this argument.

## Usage

```
list_tables(session = NULL, component)
```

## Arguments

session	An object of class <code>iuropa_session</code> created by <code>authenticate()</code> . This argument is only required for components that are not yet publicly available.
component	A string. The code for a component. Use <code>list_components()</code> to get a list of valid values.

## Value

This function returns a string vector containing the names of the tables in the specified component.

## Examples

```
## Not run:  
out <- list_tables(  
  component = "cjeu_database_platform"  
)  
## End(Not run)
```

---

list_variables	<i>List the variables in a table</i>
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### Description

This function lists the variables that are currently available in a particular table in a component of the IUROPA CJEU Database. You have to specify the code for a component and the name of a table in that component. The values returned by `list_components()` and `list_tables()` are the values that are valid for these arguments.

### Usage

```
list_variables(session = NULL, component, table)
```

### Arguments

session	An object of class <code>iuropa_session</code> created by <code>authenticate()</code> . This argument is only required for components that are not yet publicly available.
component	A string. The code for a component. Use <code>list_components()</code> to get a list of valid values.
table	A string. The name of a table in the specified component. Use <code>list_tables()</code> to get a list of valid values.

### Value

This function returns a string vector containing the names of the variables in the specified table.

### Examples

```
## Not run:
out <- list_tables(
  component = "cjeu_database_platform",
  table = "decisions"
)
## End(Not run)
```

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ping_api	<i>Test the API</i>
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### Description

This function tests that the IUROPA API is running.

### Usage

```
ping_api()
```



**Examples**

```
## Not run:  
ping_api()  
## End(Not run)
```

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print_citation	<i>Print the citation for a IUROPA component</i>
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**Description**

This function generates the recommended citations for a IUROPA component. You need to provide the code for a component.

**Usage**

```
print_citation(component)
```

**Arguments**

component	A string. The code for a component. Use <code>list_components()</code> to get a list of valid values.
-----------	---

**Examples**

```
## Not run:  
print_citation(  
  component = "cjeu_database_platform"  
)  
## End(Not run)
```

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