

Package ‘vembedr’

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Title Embed Video in HTML

Version 0.1.4

Description A set of functions for generating HTML to embed hosted video in your R Markdown documents or Shiny applications.

Depends R (>= 3.3.0)

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Encoding UTF-8

LazyData true

Imports htmltools, rlang, httr, stringr, magrittr, glue, assertthat, utils

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URL <https://github.com/ijlyttle/vembedr>

BugReports <https://github.com/ijlyttle/vembedr/issues>

Suggests testthat, knitr, rmarkdown, covr, here, fs, conflicted, usethis

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vembedr-package	<i>vembedr: Package for embedding video</i>
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Description

The vembedr package lets you embed video into your HTML pages for these services:

Details

- YouTube
- Vimeo
- Microsoft Channel 9
- Box
- Microsoft Stream

It provides two categories of functions:

- **embed** functions, to specify a video to embed: e.g. `embed_youtube()`, `embed_url()`
- **use** functions, to modify the embedding: e.g. `use_start_time()`, `use_rounded()`

You can use the pipe (`%>%`) to chain embed function-calls with use function-calls.

embed	<i>Embed video from service</i>
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Description

These functions are used to embed video into your **rmarkdown** html-documents, or into your **shiny** apps. There are functions to embed from YouTube, Vimeo, Microsoft Channel 9 (who host the UseR! 2016 videos), and Box.

Usage

```
embed_user2016(  
    id,  
    width = NULL,  
    height = 300,  
    ratio = c("16by9", "4by3"),  
    frameborder = 0,  
    allowfullscreen = TRUE  
)  
  
embed_user2017(  
    id,  
    width = NULL,  
    height = 300,  
    ratio = c("16by9", "4by3"),  
    frameborder = 0,  
    allowfullscreen = TRUE  
)  
  
embed_box(  
    id,  
    custom_domain = getOption("vembedr.box_custom_domain"),  
    width = NULL,  
    height = 300,  
    ratio = c("16by9", "4by3"),  
    frameborder = 0,  
    allowfullscreen = TRUE  
)  
  
embed_channel9(  
    id,  
    width = NULL,  
    height = 300,  
    ratio = c("16by9", "4by3"),  
    frameborder = 0,  
    allowfullscreen = TRUE  
)  
  
embed_msstream(  
    id,  
    width = NULL,  
    height = 300,  
    ratio = c("16by9", "4by3"),  
    query = NULL  
)  
  
embed_vimeo(  
    id,
```

```

width = NULL,
height = 300,
ratio = c("16by9", "4by3"),
frameborder = 0,
allowfullscreen = TRUE,
query = NULL,
fragment = NULL
)

embed_youtube(
  id,
  width = NULL,
  height = 300,
  ratio = c("16by9", "4by3"),
  frameborder = 0,
  allowfullscreen = TRUE,
  query = NULL
)

```

Arguments

<code>id</code>	character, identifier provided by the service
<code>width</code>	numeric, width of iframe (px)
<code>height</code>	numeric, height of iframe (px)
<code>ratio</code>	character, indicates aspect ratio for the <iframe/>
<code>frameborder</code>	numeric, size of frame border (px)
<code>allowfullscreen</code>	logical, indicates if to allow fullscreen
<code>custom_domain</code>	character, (used by Box) name of Box-instance to use. It can be useful to use <code>getOption("vembedr.box_custom_domain")</code> if you are using a corporate instance of Box. If NULL, it will use the standard Box instance.
<code>query</code>	list, items to include in url-query string
<code>fragment</code>	character, string to include as url-fragment

Details

These services allow you to customize a lot of things by specifying an optional query string. The specification for the query string will differ according to the service being used:

YouTube https://developers.google.com/youtube/player_parameters

Vimeo <https://developer.vimeo.com/player/embedding>

Microsoft Channel 9 <https://channel9.msdn.com/Events/useR-international-R-User-conference/useR2016/Forty-years-of-S> (click the *Embed* tab)

Box <https://developer.box.com/docs/box-embed#section-build-box-embed-programatically>

Microsoft Stream <https://docs.microsoft.com/en-us/stream/portal-embed-video>

Value

Object with S3 class `vembedr_embed`

See Also

[use_start_time\(\)](#)

Examples

```
embed_youtube("dQw4w9WgXcQ")
embed_vimeo("45196609")
embed_user2016("Literate-Programming")
embed_user2017("Room-202-Lightning-Talks") %>% use_start_time("26m35s")
embed_box("m5do45hvzw32iv2aors3urf5pgkxxazx")
embed_msstream("ae21b0ac-4a2b-41f4-b3fc-f1720dd20f48")
```

embed_url

Embed video based on URL

Description

You can use this function to embed video using only the URL and you do not need any customization beyond the start-time. It works for all the services supported by the [embed\(\)](#) family of functions.

Usage

```
embed_url(url)
```

Arguments

`url` character, URL of web-page for video

Details

This function calls [suggest_embed\(\)](#) then parses and evaluates the code.

Value

Object with S3 class `vembedr_embed`

See Also

[suggest_embed\(\)](#)

Examples

```
embed_url("https://youtu.be/1-vcErOPofQ?t=28s")
```

get_service	<i>Determine service based on URL</i>
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Description

Determine service based on URL

Usage

```
get_service(url)
```

Arguments

url character, URL of web-page for video

Value

character identifying the video service

Examples

```
get_service("https://youtu.be/1-vcErOPofQ?t=28s")
```

rickroll	<i>Embed popular video</i>
----------	----------------------------

Description

If you want to experiment with the arguments to `embed()`, such as query, but do not have a particular video in mind, this function may be useful to you.

Usage

```
rickroll_vimeo(...)
```

```
rickroll_youtube(...)
```

```
rickroll_channel9(...)
```

Arguments

... arguments (other than id) passed on to `embed()`

Value

An embed object that prints an `htmltools::tags$iframe` element

Examples

```
rickroll_vimeo()
rickroll_youtube()
rickroll_channel9()
```

use_align	<i>Align horizontally</i>
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Description

Use this function to specify the horizontal alignment of the `iframe` within the enclosing `div`.

Usage

```
use_align(embed, align = c("left", "right", "center", "justified"))
```

Arguments

embed	vembedr_embed object, created using an embed() function
align	character, indicates type of alignment

Value

Object with S3 class `vembedr_embed`

use_bs_responsive	<i>Make size responsive</i>
-------------------	-----------------------------

Description

If your HTML page includes [Twitter Bootstrap 3](#), you can use this function to make the size of the `iframe` responsive within the enclosing `div`.

Usage

```
use_bs_responsive(embed)
```

Arguments

embed	vembedr_embed object, created using an embed() function
-------	---

Value

Object with S3 class `vembedr_embed`

use_rounded	<i>Make rounded corners</i>
-------------	-----------------------------

Description

You can use this function to make rounded corners for the enclosing `</div>`.

Usage

```
use_rounded(embed, radius = NULL)
```

Arguments

embed	vembedr_embed object, created using an <code>embed()</code> function
radius	numeric or character, css property for the border-radius for the <code><iframe/></code> . Numeric values will be interpreted as number of pixels.

Value

Object with S3 class `vembedr_embed`

use_start_time.vembedr_embed_box	<i>Specify start time</i>
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Description

This function provides you a consistent way to specify the start time, regardless of the service. Please note that Box does not provide a means to specify the start time.

Usage

```
## S3 method for class 'vembedr_embed_box'
use_start_time(embed, ...)

## S3 method for class 'vembedr_embed_channel9'
use_start_time(embed, start_time, is_paused = TRUE, ...)

## S3 method for class 'vembedr_embed_msstream'
use_start_time(embed, start_time, ...)

## S3 method for class 'vembedr_embed_vimeo'
use_start_time(embed, start_time, ...)

## S3 method for class 'vembedr_embed_youtube'
```



```

use_start_time(embed, start_time, ...)

use_start_time(embed, ...)

## Default S3 method:
use_start_time(embed, ...)

```

Arguments

embed	vembedr_embed object, created using an <code>embed()</code> function
...	generic arguments to pass through
start_time	numeric (seconds), or character (e.g. "3m15s")
is_paused	logical, for "Channel 9" specifies if the video should be paused at this time

Details

The `start_time` argument can take a variety of formats; these inputs all evaluate to the same value:

- "0h1m0s", "0h01m00s", "0h1m"
- "1m0s", "1m"
- "60s", 60

Please note that for Vimeo, you can specify a start time, but you can not specify that the video be paused at this time. In other words, it is like "autoplay" is set to TRUE, and you cannot unset it.

Value

Object with S3 class `vembedr_embed`

Examples

```

rickroll_youtube() %>%
  use_start_time("3m32s")

```

vembedr-s3-classes *vembedr S3 Classes*

Description

Knowledge of these classes is not needed for day-to-day use. Rather, it is a bookkeeping device used to make it clearer to a developer how to add a new service.

Details

We use S3 classes to distinguish an embed object, and to denote which service it uses. Objects of these classes are created by `embed_url()` and each service's embed function.

`vembedr_embed`

- base class for all services
- HTML `<div>`
- contains the embed code

There is an additional class attached according to the service:

- `vembedr_embed_youtube`
- `vembedr_embed_youtube_short`
- `vembedr_embed_vimeo`
- `vembedr_embed_channel9`
- `vembedr_embed_box`
- `vembedr_embed_msstream`

To support parsing, there is an internal S3 class attached to the URL being processed. It is named according to the service:

- `vembedr_url_youtube`
- `vembedr_url_youtube_short`
- `vembedr_url_vimeo`
- `vembedr_url_channel9`
- `vembedr_url_box`
- `vembedr_url_msstream`

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