

# Package ‘kfigr’

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**Title** Integrated Code Chunk Anchoring and Referencing for R Markdown Documents

**Version** 1.2.1

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**Description** A streamlined cross-referencing system for R Markdown documents generated with 'knitr'. R Markdown is an authoring format for generating dynamic content from R. 'kfigr' provides a hook for anchoring code chunks and a function to cross-reference document elements generated from said chunks, e.g. figures and tables.

**Depends** R (>= 3.1.0)

**Imports** stats, knitr (>= 1.6)

**Suggests** ggplot2, markdown

**VignetteBuilder** knitr

**License** GPL (>= 3)

**URL** <https://github.com/mkoohafkan/kfigr>

**BugReports** <https://github.com/mkoohafkan/kfigr/issues>

**RoxygenNote** 7.1.1

**Encoding** UTF-8

**NeedsCompilation** no

**Repository** CRAN

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kfigr-package	<i>Integrated Code Chunk Anchoring and Referencing for R Markdown Documents</i>
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### Description

A streamlined cross-referencing system for R Markdown documents generated with 'knitr'. It provides the chunk hook anchor and a cross-referencing function `figr`. See the vignette to get started.

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anchors	<i>Anchor Information</i>
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### Description

Retrieves diagnostics such as the anchor index and history. Use for code verification and troubleshooting. Also used internally by `kfigr`.

### Usage

```
anchors(tag)
```

### Arguments

tag	Optional specification of return type. <code>tag = "index"</code> returns a dataframe listing the chunk labels, assigned types and index numbers. <code>tag = "history"</code> returns a dataframe listing all reference calls, in order.
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### Value

If `tag = "index"`, a dataframe listing all anchored chunks. If `tag = "history"`, a dataframe listing all references made, in order. If the value of `tag` matches a specific type, all references of that type are provided in a list. If `tag` is missing, all references of all types are provided in a nested list.

### Examples

```
figr("foo", type="figure")
figr("bar", type="table")
figr("test", type="figure")
anchors()
```

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figr	<i>Code Chunk Reference</i>
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**Description**

Reference a code chunk.

**Usage**

```
figr(label, prefix, link, type)
```

**Arguments**

label	The code chunk label.
prefix	Logical: return the prefix (chunk type) along with the rank.
link	### Logical: Place an HTML link to the anchor?
type	The type of the referenced chunk.

**Value**

A text or url reference to the code chunk.

**Examples**

```
figr("test", type="reference")
figr("test")
figr("test", TRUE, link=FALSE)
if(interactive()){
  require(knitr)
  opts_knit$set(kfigr.prefix=TRUE, kfigr.link=TRUE)
  figr("test")
}
```

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hook_anchor	<i>Anchor Chunk Hook Extension for package:knitr</i>
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**Description**

**knitr** hook functions are called when the corresponding chunk options are not NULL to do additional jobs beside the R code in chunks. **kfigr** provides the hook "anchor" which adds an HTML anchor tag immediately above a code chunk.

**Usage**

```
hook_anchor(before, options, envir)
```

## Arguments

before, options, envir  
see references

## Details

the function `hook_anchor` is set as a hook in **knitr** when **kfigr** is attached (and removed when **kfigr** is detached). It writes an HTML anchor tag directly above a code chunk in the form `<a name="chunk-name"></a>` where `chunk-name` is the chunk label contained in `options$label`.

## References

<http://yihui.org/knitr/hooks#chunk-hooks>

## See Also

[figr](#), [anchors](#)

## Examples

```
## Not run:  
require(knitr)  
knit_hooks$set(anchor = hook_anchor)  
# then in code chunks, use e.g. the option anchor = "figure"  
  
## End(Not run)
```

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index

*Chunk Indexing*

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## Description

(Internal) index a chunk. Should not be called by the user directly.

## Usage

```
index(label, type)
```

## Arguments

label           The chunk label.  
type            The type of chunk to be indexed.

## Value

The rank of the indexed chunk.

**See Also**

[fig](#), [anchors](#)

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