

# Package: tinkr (via r-universe)

October 16, 2024

**Title** Cast '(R)Markdown' Files to 'XML' and Back Again

**Version** 0.2.0.9001

**Description** Parsing '(R)Markdown' files with numerous regular expressions can be fraught with peril, but it does not have to be this way. Converting '(R)Markdown' files to 'XML' using the 'commonmark' package allows in-memory editing via of 'markdown' elements via 'XPath' through the extensible 'R6' class called 'yarn'. These modified 'XML' representations can be written to '(R)Markdown' documents via an 'xslt' stylesheet which implements an extended version of 'GitHub'-flavoured 'markdown' so that you can tinker to your hearts content.

**License** GPL-3

**URL** <https://docs.ropensci.org/tinkr/>,  
<https://github.com/ropensci/tinkr>

**BugReports** <https://github.com/ropensci/tinkr/issues>

**Imports** commonmark (>= 1.6), glue, magrittr, purrr, R6, rlang (>= 0.4.5), xml2, xslt, yaml

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**RoxygenNote** 7.3.2.9000

**VignetteBuilder** knitr

**Repository** <https://carpentries.r-universe.dev>

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|              |                               |
|--------------|-------------------------------|
| find_between | <i>Find between a pattern</i> |
|--------------|-------------------------------|

---

### Description

Helper function to find all nodes between a standard pattern. This is useful if you want to find unnested pandoc tags.

### Usage

```
find_between(
  body,
  ns,
  pattern = "md:paragraph[md:text[starts-with(text(), ':::')]]",
  include = FALSE
)
```

### Arguments

|         |  |
|---------|--|
| body    | and XML document   |
| ns      | the namespace of the document  |
| pattern | an XPath expression that defines characteristics of nodes between which you want to extract everything.                                  |
| include | if TRUE, the tags matching pattern will be included in the output, defaults to FALSE, which only gives you the nodes in between pattern. |

### Value

a nodeset

**Examples**

```
md <- glue::glue("
h1
====

::: section

h2
----

section *text* with [a link](https://ropensci.org/)

:::
")
x <- xml2::read_xml(commonmark::markdown_xml(md))
ns <- xml2::xml_ns_rename(xml2::xml_ns(x), d1 = "md")
res <- find_between(x, ns)
res
xml2::xml_text(res)
xml2::xml_find_all(res, ".//descendant-or-self::md:*", ns = ns)
```

---

get\_protected

*Get protected nodes*


---

**Description**

Get protected nodes

**Usage**

```
get_protected(body, type = NULL, ns = md_ns())
```

**Arguments**

|      |  |
|------|--|
| body | an <code>xml_document</code> object  |
| type | a character vector listing the protections to be included. Defaults to <code>NULL</code> , which includes all protected nodes: <ul style="list-style-type: none"> <li>• <code>math</code>: via the <code>protect_math()</code> function</li> <li>• <code>curly</code>: via the <code>protect_curly()</code> function</li> <li>• <code>unescaped</code>: via the <code>protect_unescaped()</code> function</li> </ul> |
| ns   | the namespace of the document (defaults to <code>md_ns()</code> )  |

**Value**

an `xml_nodelist` object.

**Examples**

```

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path, sourcepos = TRUE)
# protect curly braces
ex$protect_curly()
# add math and protect it
ex$add_md(c("## math\n",
  "$c^2 = a^2 + b^2\n",
  "$$",
  "\\sum_{i}^k = x_i + 1",
  "$$\n")
)
ex$protect_math()
# get protected now shows all the protected nodes
get_protected(ex$body)
get_protected(ex$body, c("math", "curly")) # only show the math and curly

```

---

md\_ns

*Aliased namespace prefix for commonmark*


---

**Description**

The commonmark package is used to translate markdown to XML, but it does not assign a namespace prefix, which means that xml2 will auto-assign a default prefix of d1.

**Usage**

```
md_ns()
```

**Details**

This function renames the default prefix to md, so that you can use XPath queries that are slightly more descriptive.

**Value**

an xml\_namespace object (see [xml2::xml\\_ns\(\)](#))

**Examples**

```

tink <- tinkr::to_xml(system.file("extdata", "example1.md", package = "tinkr"))
# with default namespace
xml2::xml_find_all(tink$body,
  "//*[d1:link[starts-with(@destination, 'https://ropensci')]]"
)
# with tinkr namespace
xml2::xml_find_all(tink$body,
  "//*[md:link[starts-with(@destination, 'https://ropensci')]]",
  tinkr::md_ns()
)

```

)

---

|               |  |
|---------------|--|
| protect_curly | <i>Protect curly elements for further processing</i> |
|---------------|--|

---

## Description

Protect curly elements for further processing

## Usage

```
protect_curly(body, ns = md_ns())
```

## Arguments

|      |   |
|------|---|
| body | an XML object   |
| ns   | an XML namespace object (defaults: <a href="#">md_ns()</a> ). |

## Details

Commonmark will render text such as `{ .unnumbered}` (Pandoc/Quarto option) or `{#hello .greeting .message style="c` (Markdown custom block) as normal text which might be problematic if trying to extract real text from the XML.

If sending the XML to, say, a translation API that allows some tags to be ignored, you could first transform the text tags with the attribute `curly` to curly tags, and then transform them back to text tags before using `to_md()`.

## Value

a copy of the modified XML object

## Note

this function is also a method in the [yarn](#) object.

## Examples

```
m <- tinkr::to_xml(system.file("extdata", "basic-curly.md", package = "tinkr"))
xml2::xml_child(m$body)
m$body <- protect_curly(m$body)
xml2::xml_child(m$body)
```

---

protect\_math

*Protect math elements from commonmark's character escape*

---

## Description

Protect math elements from commonmark's character escape

## Usage

```
protect_math(body, ns = md_ns())
```

## Arguments

|      |  |
|------|--|
| body | an XML object  |
| ns   | an XML namespace object (defaults: <code>md_ns()</code> ). |

## Details

Commonmark does not know what LaTeX is and will LaTeX equations as normal text. This means that content surrounded by underscores are interpreted as `<emph>` elements and all backslashes are escaped by default. This function protects inline and block math elements that use `$` and `$$` for delimiters, respectively.

## Value

a copy of the modified XML object

## Note

this function is also a method in the [yarn](#) object.

## Examples

```
m <- tinkr::to_xml(system.file("extdata", "math-example.md", package = "tinkr"))
txt <- textConnection(tinkr::to_md(m))
cat(tail(readLines(txt)), sep = "\n") # broken math
close(txt)
m$body <- protect_math(m$body)
txt <- textConnection(tinkr::to_md(m))
cat(tail(readLines(txt)), sep = "\n") # fixed math
close(txt)
```

---

|           |   |
|-----------|---|
| show_list | <i>Display a node or nodelist as markdown</i> |
|-----------|---|

---

## Description

When inspecting the results of an XPath query, displaying the text often

## Usage

```
show_list(nodelist, stylesheet_path = stylesheet())
```

```
show_block(nodelist, mark = FALSE, stylesheet_path = stylesheet())
```

```
show_censor(nodelist, stylesheet_path = stylesheet())
```

## Arguments

nodelist            an object of class xml\_nodelist OR xml\_node OR a list of either.

stylesheet\_path    path to the XSL stylesheet

mark                [bool] When TRUE markers ([. . .]) are added to replace nodes that come before or after the isolated nodes. Defaults to FALSE, which only shows the isolated nodes in their respective blocks. Note that the default state may cause nodes within the same block to appear adjacent to each other.

## Value

a character vector, invisibly. The result of these functions are displayed to the screen

## See Also

[to\\_md\\_vec\(\)](#) to get a vector of these elements in isolation.

## Examples

```
path <- system.file("extdata", "show-example.md", package = "tinkr")
y <- tinkr::yarn$new(path, sourcepos = TRUE)
y$protect_math()$protect_curly()
items <- xml2::xml_find_all(y$body, ".//md:item", tinkr::md_ns())
imgs <- xml2::xml_find_all(y$body, ".//md:image | .//node()[@curly]",
  tinkr::md_ns())
links <- xml2::xml_find_all(y$body, ".//md:link", tinkr::md_ns())
code <- xml2::xml_find_all(y$body, ".//md:code", tinkr::md_ns())
blocks <- xml2::xml_find_all(y$body, ".//md:code_block", tinkr::md_ns())

# show a list of items
show_list(links)
show_list(code)
```

```
show_list(blocks)

# show the items in their local structure
show_block(items)
show_block(links, mark = TRUE)

# show the items in the full document censored (everything but whitespace):
show_censor(imgs)

# You can also adjust the censorship parameters. There are two paramters
# available: the mark, which chooses what character you want to use to
# replace characters (default: `  2587`); and the regex which specifies
# characters to replace (default: `^[[:space:]]`), which replaces all
# non-whitespace characters.
#
# The following will replace everything that is not a whitespace
# or punctuation character with "o" for a very ghostly document
op <- options()
options(tinkr.censor.regex = "^[[:space:][:punct:]]")
options(tinkr.censor.mark = "o")
show_censor(links)
options(tinkr.censor.regex = NULL)
options(tinkr.censor.mark = NULL)
```

---

stylesheet

*The tinkr stylesheet*

---

## Description

This function returns the path to the tinkr stylesheet

## Usage

```
stylesheet()
```

## Value

a single element character vector representing the path to the stylesheet used by tinkr.

## Examples

```
tinkr::stylesheet()
```



to\_md

*Write YAML and XML back to disk as (R)Markdown***Description**

Write YAML and XML back to disk as (R)Markdown

**Usage**

```
to_md(yaml_xml_list, path = NULL, stylesheet_path = stylesheet())
```

```
to_md_vec(nodelist, stylesheet_path = stylesheet())
```

**Arguments**

`yaml_xml_list` result from a call to `to_xml()` and editing.

`path` path of the new file. Defaults to NULL, which will not write any file, but will still produce the conversion and pass the output as a character vector.

`stylesheet_path` path to the XSL stylesheet

`nodelist` an object of `xml_nodelist` or `xml_node`

**Details**

The stylesheet you use will decide whether lists are built using "\*" or "-" for instance. If you're keen to keep your own Markdown style when using `to_md()` after `to_xml()`, you can tweak the XSL stylesheet a bit and provide the path to your XSL stylesheet as argument.

**Value**

- `to_md()`: `\[character\]` the converted document, invisibly as a character vector containing two elements: the yaml list and the markdown body.
- `to_md_vec()`: `\[character\]` the markdown representation of each node.

**Examples**

```
path <- system.file("extdata", "example1.md", package = "tinkr")
yaml_xml_list <- to_xml(path)
names(yaml_xml_list)
# extract the level 3 headers from the body
headers3 <- xml2::xml_find_all(
  yaml_xml_list$body,
  xpath = './md:heading[@level="3"]',
  ns = md_ns()
)
# show the headers
print(h3 <- to_md_vec(headers3))
```

```

# transform level 3 headers into level 1 headers
# NOTE: these nodes are still associated with the document and this is done
# in place.
xml2::xml_set_attr(headers3, "level", 1)
# preview the new headers
print(h1 <- to_md_vec(headers3))
# save back and have a look
newmd <- tempfile("newmd", fileext = ".md")
res <- to_md(yaml_xml_list, newmd)
# show that it works
regmatches(res[[2]], gregexpr(h1[1], res[[2]], fixed = TRUE))
# file.edit("newmd.md")
file.remove(newmd)

```

---

to\_xml

*Transform file to XML*


---

## Description

Transform file to XML

## Usage

```

to_xml(
  path,
  encoding = "UTF-8",
  sourcepos = FALSE,
  anchor_links = TRUE,
  unescaped = TRUE
)

```

## Arguments

|              |  |
|--------------|--|
| path         | Path to the file.  |
| encoding     | Encoding to be used by readLines.  |
| sourcepos    | passed to <code>commonmark::markdown_xml()</code> . If TRUE, the source position of the file will be included as a "sourcepos" attribute. Defaults to FALSE.   |
| anchor_links | if TRUE (default), reference-style links with anchors (in the style of [key]: <a href="https://example.com/link">https://example.com/link</a> ) will be preserved as best as possible. If this is FALSE, the anchors disappear and the links will appear as normal links. See <code>resolve_anchor_links()</code> for details. |
| unescaped    | if TRUE (default) AND sourcepos = TRUE, square braces that were unescaped in the original document will be preserved as best as possible. If this is FALSE, these braces will be escaped in the output document. See <code>protect_unescaped()</code> for details.   |

**Details**

This function will take a (R)markdown file, split the yaml header from the body, and read in the body through `commonmark::markdown_xml()`. Any RMarkdown code fences will be parsed to expose the chunk options in XML and tickboxes (aka checkboxes) in GitHub-flavored markdown will be preserved (both modifications from the commonmark standard).

**Value**

A list containing the YAML of the file (yaml) and its body (body) as XML.

**Note**

Math elements are not protected by default. You can use `protect_math()` to address this if needed.

**Examples**

```
path <- system.file("extdata", "example1.md", package = "tinkr")
post_list <- to_xml(path)
names(post_list)
path2 <- system.file("extdata", "example2.Rmd", package = "tinkr")
post_list2 <- to_xml(path2)
post_list2
```

---

yarn

*R6 class containing XML representation of Markdown*


---

**Description**

Wrapper around an XML representation of a Markdown document. It contains four publicly accessible slots: path, yaml, body, and ns.

**Details**

This class is a fancy wrapper around the results of `to_xml()` and has methods that make it easier to add, analyze, remove, or write elements of your markdown document.

**Public fields**

path [character] path to file on disk

yaml [character] text block at head of file

body [xml\_document] an xml document of the (R)Markdown file.

ns [xml\_document] an xml namespace object defining "md" to commonmark.

## Methods

### Public methods:

- `yarn$new()`
- `yarn$reset()`
- `yarn$write()`
- `yarn$show()`
- `yarn$head()`
- `yarn$tail()`
- `yarn$md_vec()`
- `yarn$add_md()`
- `yarn$protect_math()`
- `yarn$protect_curly()`
- `yarn$protect_unescaped()`
- `yarn$get_protected()`
- `yarn$clone()`

**Method** `new()`: Create a new yarn document

*Usage:*

```
yarn$new(path = NULL, encoding = "UTF-8", sourcepos = FALSE, ...)
```

*Arguments:*

`path` [character] path to a markdown episode file on disk

`encoding` [character] encoding passed to `readLines()`

`sourcepos` passed to `commonmark::markdown_xml()`. If TRUE, the source position of the file will be included as a "sourcepos" attribute. Defaults to FALSE.

... arguments passed on to `to_xml()`.

*Returns:* A new yarn object containing an XML representation of a (R)Markdown file.

*Examples:*

```
path <- system.file("extdata", "example1.md", package = "tinkr")
ex1 <- tinkr::yarn$new(path)
ex1
path2 <- system.file("extdata", "example2.Rmd", package = "tinkr")
ex2 <- tinkr::yarn$new(path2)
ex2
```

**Method** `reset()`: reset a yarn document from the original file

*Usage:*

```
yarn$reset()
```

*Examples:*

```
path <- system.file("extdata", "example1.md", package = "tinkr")
ex1 <- tinkr::yarn$new(path)
# OH NO
ex1$body
ex1$body <- xml2::xml_missing()
ex1$reset()
ex1$body
```

**Method write():** Write a yarn document to Markdown/R Markdown

*Usage:*

```
yarn$write(path = NULL, stylesheet_path = stylesheet())
```

*Arguments:*

path path to the file you want to write

stylesheet\_path path to the xsl stylesheet to convert XML to markdown.

*Examples:*

```
path <- system.file("extdata", "example1.md", package = "tinkr")
ex1 <- tinkr::yarn$new(path)
ex1
tmp <- tempfile()
try(readLines(tmp)) # nothing in the file
ex1$write(tmp)
head(readLines(tmp)) # now a markdown file
unlink(tmp)
```

**Method show():** show the markdown contents on the screen

*Usage:*

```
yarn$show(lines = TRUE, stylesheet_path = stylesheet())
```

*Arguments:*

lines a subset of elements to show. Defaults to TRUE, which shows all lines of the output. This can be either logical or numeric.

stylesheet\_path path to the xsl stylesheet to convert XML to markdown.

*Returns:* a character vector with one line for each line in the output

*Examples:*

```
path <- system.file("extdata", "example2.Rmd", package = "tinkr")
ex2 <- tinkr::yarn$new(path)
ex2$head(5)
ex2$tail(5)
ex2$show()
```

**Method head():** show the head of the markdown contents on the screen

*Usage:*

```
yarn$head(n = 6L, stylesheet_path = stylesheet())
```

*Arguments:*

n the number of elements to show from the top. Negative numbers

stylesheet\_path path to the xsl stylesheet to convert XML to markdown.

*Returns:* a character vector with n elements

**Method tail():** show the tail of the markdown contents on the screen

*Usage:*

```
yarn$tail(n = 6L, stylesheet_path = stylesheet())
```

*Arguments:*

`n` the number of elements to show from the bottom. Negative numbers  
`stylesheet_path` path to the xsl stylesheet to convert XML to markdown.

*Returns:* a character vector with `n` elements

**Method** `md_vec()`: query and extract markdown elements

*Usage:*

```
yarn$md_vec(xpath = NULL, stylesheet_path = stylesheet())
```

*Arguments:*

`xpath` a valid XPath expression

`stylesheet_path` path to the xsl stylesheet to convert XML to markdown.

*Returns:* a vector of markdown elements generated from the query

*Examples:*

```
path <- system.file("extdata", "example1.md", package = "tinkr")
ex <- tinkr::yarn$new(path)
# all headings
ex$md_vec("./md:heading")
# all headings greater than level 3
ex$md_vec("./md:heading[@level>3]")
# all links
ex$md_vec("./md:link")
# all links that are part of lists
ex$md_vec("./md:list//md:link")
# all code
ex$md_vec("./md:code | ./md:code_block")
```

**Method** `add_md()`: add an arbitrary Markdown element to the document

*Usage:*

```
yarn$add_md(md, where = 0L)
```

*Arguments:*

`md` a string of markdown formatted text.

`where` the location in the document to add your markdown text. This is passed on to `xml2::xml_add_child()`.

Defaults to 0, which indicates the very top of the document.

*Examples:*

```
path <- system.file("extdata", "example2.Rmd", package = "tinkr")
ex <- tinkr::yarn$new(path)
# two headings, no lists
xml2::xml_find_all(ex$body, "md:heading", ex$ns)
xml2::xml_find_all(ex$body, "md:list", ex$ns)
ex$add_md(
  "# Hello\n\nThis is *new* formatted text from `{tinkr}`!",
  where = 1L
)$add_md(
  "- This\n- is\n- a new list",
  where = 2L
```

```

)
# three headings
xml2::xml_find_all(ex$body, "md:heading", ex$ns)
xml2::xml_find_all(ex$body, "md:list", ex$ns)
tmp <- tempfile()
ex$write(tmp)
readLines(tmp, n = 20)

```

**Method** `protect_math()`: Protect math blocks from being escaped

*Usage:*

```
yarn$protect_math()
```

*Examples:*

```

path <- system.file("extdata", "math-example.md", package = "tinkr")
ex <- tinkr::yarn$new(path)
ex$tail() # math blocks are escaped :(
ex$protect_math()$tail() # math blocks are no longer escaped :)

```

**Method** `protect_curly()`: Protect curly phrases `{likethat}` from being escaped

*Usage:*

```
yarn$protect_curly()
```

*Examples:*

```

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path)
ex$protect_curly()$head()

```

**Method** `protect_unescaped()`: Protect unescaped square braces from being escaped.

This is applied by default when you use `yarn$new(sourcepos = TRUE)`.

*Usage:*

```
yarn$protect_unescaped()
```

*Examples:*

```

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path, sourcepos = TRUE, unescaped = FALSE)
ex$tail()
ex$protect_unescaped()$tail()

```

**Method** `get_protected()`: Return nodes whose contents are protected from being escaped

*Usage:*

```
yarn$get_protected(type = NULL)
```

*Arguments:*

`type` a character vector listing the protections to be included. Defaults to `NULL`, which includes all protected nodes:

- `math`: via the `protect_math()` function
- `curly`: via the `protect_curly()` function
- `unescaped`: via the `protect_unescaped()` function

*Examples:*

```

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path, sourcepos = TRUE)
# protect curly braces
ex$protect_curly()
# add math and protect it
ex$add_md(c("## math\n",
"$c^2 = a^2 + b^2$\n",
"$$",
"\sum_{i}^k = x_i + 1",
"$$\n")
)
ex$protect_math()
# get protected now shows all the protected nodes
ex$get_protected()
ex$get_protected(c("math", "curly")) # only show the math and curly

```

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
yarn$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**Note**

this requires the `sourcepos` attribute to be recorded when the object is initialised. See [protect\\_unescaped\(\)](#) for details.

**See Also**

[to\\_md\\_vec\(\)](#) for a way to generate the same vector from a nodelist without a yarn object

**Examples**

```

## -----
## Method `yarn$new`
## -----

path <- system.file("extdata", "example1.md", package = "tinkr")
ex1 <- tinkr::yarn$new(path)
ex1
path2 <- system.file("extdata", "example2.Rmd", package = "tinkr")
ex2 <- tinkr::yarn$new(path2)
ex2

## -----
## Method `yarn$reset`
## -----

```



```

path <- system.file("extdata", "example1.md", package = "tinkr")
ex1 <- tinkr::yarn$new(path)
# OH NO
ex1$body
ex1$body <- xml2::xml_missing()
ex1$reset()
ex1$body

## -----
## Method `yarn$write`
## -----

path <- system.file("extdata", "example1.md", package = "tinkr")
ex1 <- tinkr::yarn$new(path)
ex1
tmp <- tempfile()
try(readLines(tmp)) # nothing in the file
ex1$write(tmp)
head(readLines(tmp)) # now a markdown file
unlink(tmp)

## -----
## Method `yarn$show`
## -----

path <- system.file("extdata", "example2.Rmd", package = "tinkr")
ex2 <- tinkr::yarn$new(path)
ex2$head(5)
ex2$tail(5)
ex2$show()

## -----
## Method `yarn$md_vec`
## -----

path <- system.file("extdata", "example1.md", package = "tinkr")
ex <- tinkr::yarn$new(path)
# all headings
ex$md_vec("../md:heading")
# all headings greater than level 3
ex$md_vec("../md:heading[@level>3]")
# all links
ex$md_vec("../md:link")
# all links that are part of lists
ex$md_vec("../md:list//md:link")
# all code
ex$md_vec("../md:code | ../md:code_block")

## -----
## Method `yarn$add_md`
## -----

```

```

path <- system.file("extdata", "example2.Rmd", package = "tinkr")
ex <- tinkr::yarn$new(path)
# two headings, no lists
xml2::xml_find_all(ex$body, "md:heading", ex$ns)
xml2::xml_find_all(ex$body, "md:list", ex$ns)
ex$add_md(
  "# Hello\n\nThis is *new* formatted text from `{tinkr}`!",
  where = 1L
)$add_md(
  " - This\n - is\n - a new list",
  where = 2L
)
# three headings
xml2::xml_find_all(ex$body, "md:heading", ex$ns)
xml2::xml_find_all(ex$body, "md:list", ex$ns)
tmp <- tempfile()
ex$write(tmp)
readLines(tmp, n = 20)

## -----
## Method `yarn$protect_math`
## -----

path <- system.file("extdata", "math-example.md", package = "tinkr")
ex <- tinkr::yarn$new(path)
ex$tail() # math blocks are escaped :(
ex$protect_math()$tail() # math blocks are no longer escaped :)

## -----
## Method `yarn$protect_curly`
## -----

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path)
ex$protect_curly()$head()

## -----
## Method `yarn$protect_unescaped`
## -----

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path, sourcepos = TRUE, unescaped = FALSE)
ex$tail()
ex$protect_unescaped()$tail()

## -----
## Method `yarn$get_protected`
## -----

path <- system.file("extdata", "basic-curly.md", package = "tinkr")
ex <- tinkr::yarn$new(path, sourcepos = TRUE)
# protect curly braces
ex$protect_curly()

```

```
# add math and protect it
ex$add_md(c("## math\n",
  "$c^2 = a^2 + b^2$\n",
  "$$",
  "\\sum_{i}^k = x_i + 1",
  "$$\n")
)
ex$protect_math()
# get protected now shows all the protected nodes
ex$get_protected()
ex$get_protected(c("math", "curly")) # only show the math and curly
```

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