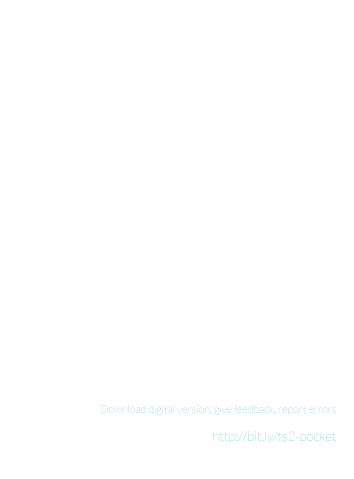
# **Learn Neos**

TypoScript 2
Pocket Reference

for TYPO3 Neos 1.1



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# TypoScript 2 • Syntax

```
Comments
                     # Line comment
Simple Values
                     book = "The guide"
                     answer = 42
                     enableImprobabilityDrive = true
Expressions
                     answer = \{Math.floor(85/2)\}
                     title = ${q(node).property('title')}
Objects
                     output = TYPO3.TypoScript:Array {
                       hello = 'Hello'
                       world = 'world!'
Property
                     output.world = "world!"
Definitions
                       hello = "Hello"
                     prototype(Acme.Demo:Book).book = ${book}
Prototype
                     prototype(Acme.Demo:Book) < prototype(Template) {
Extension
                       templatePath = 'Book.html'
Clear Property
                     output.world >
Namespaces
                     namespace d=Acme.Demo
                     output = d:Book
```

# TypoScript 2 • Meta Properties

Apply processors after evaluation @process example.@process.someProcessor = \${String.toUpperCase(value)} @override arrav Set context variables by named key example.@override.someVariable = \${q(node).parent()} @position Order definitions in Array. @process, Case <numerical-order> | start (<weight>) | end (<weight>) before <key> (<weight>) | after <key> (<weight>) page.body.javascripts.jQuery.@position = 'start 100' @cache Define caching behavior for object mode 'embed' 'cached' or 'uncached' entryldentifier entryTags context 'uncached' maximum Lifetime null (default) O (unlimited) or x seconds. mode = 'cached' entryldentifier.node = \${node} entryTags.1 = \${'Node\_' + node.identifier} @class Set implementation class for object

# TypoScript 2 • Object types

## TYP03.TypoScript

## Template Render a Fluid template

```
templatePath string The template path and filename (required)
partialRootPath string Path to partials
layoutRootPath string Path to layouts
sectionName string The Fluid <f:section> to render (if given)
[key] mixed Define a variable with name key in Fluid

prototype(My.Site:Footer) < prototype(TYPO3.TypoScript:Template) {
   templatePath = 'resource://My.Site/Private/Templates/Footer.html'
   sectionName = 'main'
   node = ${node}
}
```

# Array Render multiple ordered definitions and concatenate the results

# Value Evaluate any value as a TypoScript object

## TYPO3.TypoScript

## Collection Render each item in a collection and concatenate the results

```
collection array The collection to render (Iterable, required)
itemName string Context variable name for each item (required)
iterationName string Context variable name for iteration information
with properties index, cycle, isFirst, isLast
itemRenderer string The item rendering definition: simple value,
expression or object (required)

output = TYPO3.TypoScript:Collection {
collection = ${q(node).children()}}
itemName = 'childNode'
itemRenderer = TYPO3.TypoScript:Template {
templatePath = 'resource://...'
node = ${childNode}}
}
```

# RawArray Evaluate nested definitions as array

# TypoScript 2 • Object types

## TYPO3.TypoScript

## ResourceUri Build a URI to a package resource (e.g. JS or CSS)

```
path string Path to resource, either a path relative to Public and package or a resource:// URI
package string The package key (e.g. 'My.Package')
resource Resource boolean Whether resource localization should be used, defaults to true

scriptInclude = TYPO3.TypoScript:Tag {
  tagName = 'script'
  attributes {
    src = TYPO3.TypoScript:ResourceUri {
      path = 'resource://My.Package/Public/Scripts/App.js'
  }
}
```

### UriBuilder Build a URI to a controller action

package	string	The package key (e.g. 'My.Package')
subpackage	string	The subpackage, defaults to empty
controller	string	The controller name (e.g. 'Registration')
action	string	The action name (e.g. 'new')
arguments	array	Arguments to the action by named key
format	string	An optional request format (e.g. 'html')
section	string	An optional fragment (hash) for the URI
additionalParams	array	Additional URI query parameters
addQueryString	boolean	Whether to keep current query parameters
argumentsToBe	array	Query parameters to exclude for
ExcludedFrom		addQueryString
QueryString		
absolute	boolean	Whether to create an absolute URI

## TYPO3.TypoScript

```
uri = TYPO3.TypoScript:UriBuilder {
   package = 'My.Package'
   controller = 'Registration'
   action = 'new'
   absolute = true
}
```

# Case Conditionally render one of multiple object definitions or paths

## TYPO3.TypoScript

## Tag Render an HTML tag with attributes and body (if given)

```
tagName string Tag name, defaults to div
content string The inner content of the element
attributes string Tag attributes, the Tag prototype defines
an Attributes object by default
omitClosingTag boolean Whether to leave out the closing tag,
defaults to false
selfClosingTag boolean Whether the tag is self closing, will be
guessed from the tag name by default
output = TYPO3.TypoScript:Tag {
tagName = 'meta'
attributes {
charset = 'UTF-8'
}
```

## Attributes Render HTML tag attributes in an extensible way

#### TYPO3.Neos

```
Page Render an HTML document with metadata for Neos
```

```
HTML doctype, defaults to <!DOCTYPE html>
doctype
htmlTag
                              The opening <html> tag
attributes.[key] mixed
                              Attributes for <html> tag
                              The opening <head> tag
headTag
head
                              Content inside < head>
   titleTag
                              The <title> tag
  javascripts
   stylesheets
                              Head CSS includes (link tags)
bodyTag
                              The opening <body> tag
attributes.[key] mixed
                              Attributes for <body> tag
bodv
   templatePath
   [kev]
  iavascripts
# Output in Fluid template with {content.main -> f:format.raw()}
  content.main = PrimaryContent {
    nodePath = 'main'
# Include a stylesheet from a <f:section> in the template
page.head.stylesheets.mySite = TYPO3.TypoScript:Template {
    templatePath = 'resource://My.Package/Private/Page.html'
    sectionName = 'headStylesheets'
```

#### TYPO3.Neos

### ContentCollection Render content from a ContentCollection

# Primary Content Render the primary Content Collection, extends Case

nodePath	string	The relative node path of the Content-
		Collection (e.g. 'main') (required)
default	array	Default case that renders a Content-
		Collection
[key]	array	Additional conditions (e.g. to handle specific
		document type), see TYPO3.TypoScript:Case

The package key (e.g. 'My.Package') (required)

#### TYPO3.Neos

# Content Base type to render content nodes, extends Template

```
templatePath string The template path and filename, defaults to 'resource://[packageKey]/Private/Templa tes/NodeTypes/[nodeType].html'

[key] mixed Variables for the node template, all node type properties are set by default attributes ts:Attributes Extensible attributes for the template

prototype(My.Package:MyContent) < prototype(TYPO3.Neos:Content) { templatePath = 'resource://My.Package/Template/Other.html' # Auto-generated for all node type properties # title = ${node.properties.title}
```

## Plugin

package subpackage

# Base type to render plugin nodes

```
controller array action string argumentNamespace string argumentNamespace string Namespace for action arguments, will be resolved from node type by default [key] mixed Pass an internal argument to the action (access with _key)

prototype(My.Package:FlickrPlugin) < prototype(TYPO3.Neos:Plugin) {
    package = 'My.Package'
    controller = 'Flickr'
    action = 'tagStream'
}
```

# TypoScript 2 • Object types

#### TYPO3.Neos

Menu	Render a menu with items for document nodes

templatePath entryLevel	string integer	Override the template path Start the menu at the given depth
maximumLevels	integer	Restrict the maximum depth of items in the menu (relative to entryLevel)
startingPoint	Node	The parent node of the first menu level (defaults to <b>node</b> context variable)
lastLevel	integer	Restrict the menu depth by node depth (relative to site node)
filter	string	Filter items by node type, defaults to TYPO3.Neos:Document
renderHidden- InIndex	boolean	Whether nodes with hiddenInIndex should be rendered, defaults to false
itemCollection	array	Explicitly set the <b>Node</b> items for the menu (alternative to <b>startingPoints</b> and levels)
attributes	ts:Attributes	Extensible attributes for the whole menu
normal.attributes	ts:Attributes	Attributes for <i>normal</i> state
active.attributes		Attributes for <i>active</i> state
current.attributes	ts:Attributes	Attributes for <i>current</i> state

# Menu item properties

node	Node	A node that should be used to link to the
		item (with resolved shortcuts)
originalNode	Node	The unresolved node for the menu item
state	string	'normal', 'active' (the current node) or
		'current' (parent of current node)
label	string	Full label of the node

- Eel expressions are valid JavaScript syntax
- JavaScript expression syntax can be used for Eel

Literals 42 | 1.5 | false | true | null

'A string' | "Another \"quoted\" string"

Variabels \${myVariable}

Traversal \$\{\text{node.contextPath}\}\)

Method Calls \$\{\text{String.substr("Hello world!", 6, 5)}\}

\${q(node).property('title')

Offset Access \$\{\text{String.split("Hello world!", '')[1]}\}

\${items[index + 1]}

Mathematical + | - | \* | / | %

operators

Comparisons == | != | > | >= | < | <=

Boolean !|&&|||

operators

Conditional \${a?b:c}

operator

Array and \${Array.join(['first', 'second', 'last'], ', ')}

Object Literals \$\( \q\ (\node)\).context(\( \left\) invisibleContentShown': \( \text{true} \right\))

# Eel · Helpers

## String.[function]

charAt (string, index) crop (string, length, suffix) cropAtSentence (string, length, suffix) cropAtWord (string, length, suffix) endsWith (string, search, position) firstLetterToLowerCase (string) firstLetterToUpperCase (string) htmlSpecialChars (string, preserve) indexOf (string, search, fromIndex) isBlank (string) lastIndexOf (string, search, tolndcx) md5 (string) pregMatch (string, pattern) pregReplace (string, pattern, replace) rawUrlDecode (string) rawUrlEncode (string) replace (string, search, replace) split (string, separator, limit) startsWith (string, search, position) stripTags (string) substr (string, start, length) substring (string, start, end) toBoolean (string) toFloat (string) toInteger (string) toLowerCase (string) toUpperCase (string) toString (value)

trim (string, charlist)

# Eel • Helpers

## Array.[function]

concat (array1, array2, array)

first (array)

indexOf (array, search, fromIndex)

isEmpty (array)

last (array)

length (array)

join (array, separator)

reverse (array)

keys (array)

pop (array)

push (array, element)

random (array)

shift (array)

shuffle (array, preserveKeys)
slice (array, begin, end)

sort (array)

splice (array, offset, length, replace)

unshift (array, element)

Concatenate arrays or values

Get the first element of an array Find the item position in an array

Check if an array is empty

Get the last element of an array

Get the length of an array

Join values of an array with a separator

Returns an array in reverse order

Get the array keys

Removes the last element from an array

Picks a random element from the array

Remove the first element of an array

Randomize an array

Extract a portion of an indexed array

Sorts array (number sechal acters) Replaces an array range by a replacement

Insert elements at the beginning

# Configuration.[function]

setting (settingPath)

Return the specified settings

# Eel · Helpers

## Date.[function]

add (date, interval)
dayOfMonth (dateTime)
diff (dateA, dateB)
format (date, format)
parse (string, format)
hour (dateTime)
minute (dateTime)
month (dateTime)
now ()
second (dateTime)

subtract (date interval)

today ()
year (dateTime)

ceil (x)

Add an interval to a date
Get the day of month of a date
Get the difference as a DateInterval
Format a date (or interval) to a string
Parse a date from string with a format
Get the hour of a date
Get the minute of a date
Get the month of a date
Get the current date and time
Get the second of a date
Subtract an interval from a date
Get the current date

# Math.[function]

floor (x)
max (x, y, ...)
min (x, y, ...)
random ()
randomInt (min, max)
round (subject, precision)

For more Math functions see docs.typo3.org/neos/

Smallest integer greater than or equal to x Largest integer less than or equal to x Largest of given numbers Smallest of given numbers Random float between O (incl) and 1 (excl) Random int between min and max (incl) Rounds the subject to the given precision



# Don't panic

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