# HERN TYPO3 CMS Cheat Sheet

A quick reference guide for TYPO3 CMS, covering essential concepts, TypoScript, Fluid templating, and common tasks for developers and editors.



### **TYPO3 Fundamentals**

#### Core Concepts

#### Page Tree:

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The hierarchical structure that organizes website content.
Each page in the tree represents a page on the website.

### Content Elements (CEs):

Individual pieces of content (text, images, etc.) that are added to pages. Also known as 'Elements'.

#### TypoScript:

The configuration language used to control how content is rendered. Allows for dynamic generation of HTML, CSS, and JavaScript.

#### Fluid:

The templating engine used in TYPO3. It separates the presentation layer from the logic.

#### Extensions:

Reusable components that extend TYPO3's functionality. Can be installed and configured to add features like blogs, forms, or e-commerce capabilities.

#### Backend Layouts:

Define the structure of the content area in the TYPO3 backend, dictating where content elements can be placed.

### **TypoScript Essentials**

#### **Basic Syntax**

page = PAGE	Assigns a new PAGE object. PAGE is a TypoScript object type.
page.10 = TEXT	Assigns a TEXT object to the property <b>10</b> of the <b>page</b> object.
<pre>page.10.value = Hello World</pre>	Sets the <b>value</b> property of the TEXT object to 'Hello World'.
<pre><include_typoscript: source="FILE:fileadmin/ template/setup.typoscri pt"&gt;</include_typoscript: </pre>	Includes TypoScript from an external file.
[globalVar = TSFE:id = 1]	Conditional statement: Checks if the current page ID is 1.
lib.myMenu = HMENU	Creates a menu object called 'myMenu'.

### Key Directories

/typo 3conf /	Contains configuration files, including LocalConfiguration.php and AdditionalConfiguration.php .
/typo 3temp /	Temporary files and cache. Clear this directory to resolve many common issues.
/file admin /	Default location for uploaded files (images, documents, etc.). Can be configured.
/pack ages/	Location for extensions installed via composer.
/publ ic/	Default web root. Where index.php and other public files are located. (May vary depending on

### **Backend Navigation**

**Page Module:** Used to manage the page tree and content elements on a specific page.

List Module: Provides a detailed view of all records in a table, allowing for filtering and editing.

Filelist Module: Manages files and folders in the file system.

Template Module: Edit TypoScript templates.

Extension Manager: Install, configure, and manage extensions.

Admin Tools: Various admin tools like clearing cache, system information, install tool etc.

#### Common Objects

server setup)

#### PAGE:

Defines the overall structure of the HTML page.

#### TEXT:

Outputs plain text.

IMAGE:

Renders an image. Can be configured to resize, crop, etc.

### CONTENT:

Renders content elements from the database.

### HMENU:

Generates a navigation menu.

#### USER\_INT:

Allows calling a user-defined function within TypoScript (cached). USER is similar but uncached.

#### **Example Configuration**

#### page = PAGE

page.10 = TEXT
page.10.value = Hello World
page.10.wrap = <h1>|</h1>

page.includeCSS {
 main = fileadmin/css/style.css

```
}
```

This TypoScript configuration creates a basic HTML page with a heading 'Hello World' and includes a CSS file.

Fluid Templating

### Basic Syntax

### ViewHelpers

<f:if condition="{variable}"></f:if>	f:if: Conditional ren@avingitional		
	statement. <b>f:for:</b> Looping through data. Renders		
	f:link.page: Creating internel links.		
	f:link.external: Creating external links. condition		
	f:translate: Localizing स्ट्रह		
<f:for as="item" each="{items}"></f:for>	f:format.*: Various formatting ViewHelpers (date,		
	number, html, etc.). <sub>construct</sub> .		
	Iterates Example Templațe <sub>er an</sub>		
	<f:layout name="Default"></f:layout>		
<f:link.page pageuid="123">Link to Page</f:link.page>	<f:section name="Main"> <h1>{page.title}</h1> <f:for <br="" each="{contentElements}">as="contentElement"&gt; <f:cobject< td=""></f:cobject<></f:for></f:section>		
<f:translate< td=""><td>typoscriptObjectPath="lib.contentElement"</td></f:translate<>	typoscriptObjectPath="lib.contentElement"		
key="LLL:EXT:my_extension/Resources/Private/Language/loc			
/>			
<f:format.date format="%d.%m.%Y">{date}</f:format.date>	This example demonstrates a basic Fluid template with a Formats a layout, a section for the main content, and a loop that date renders content elements using f:cobject.		
{variable -> f:format.html()}	Formats a		
	variable to		
	HTML,		
	escaping		
	potentially		
	dangerous characters.		
	Characters.		

### **Common Tasks**

### Clearing Cache

## Working with Content Elements

### Extension Management

TYPO3 caches content and configuration for performance. Clearing the cache is often necessary after making changes.	Adding a CE	In the Page module, click the '+' icon in the content area to add a new content element.	Installing an extension: Use the Extension Manager module to search for and install extensions from the TYPO3 Extension Repository
Backend: Use the 'clear cache' menu in the top bar of the backend.	Editing a CE	Click on a content element in the Page module to edit its properties.	(TER) or via composer. Configuring an extension:
Install Tool: Navigate to the Install Tool and use the 'Clear all caches'	Moving a CE	ving a CE Drag and drop content elements within the content area to change their order. Alternatively use the up/down arrows.	Many extensions have configuration options that can be set in the Extension Manager or via TypoScript.
functionality. TypoScript:			<b>Updating an extension:</b> The Extension Manager can be used to update extensions
<pre>config.disableAll = 1 (for development, disables caching)</pre>	Deleting a CE	Click the delete icon (trash can) on a content element to remove it.	to the latest versions. Uninstalling an extension:
Command-line: Use the typo3 cache:flush command.	Hiding/Disabling a CE	Use the enable/disable icon(eye icon) to hide a CE.	Use the Extension Manager to uninstall extensions that are no longer needed.