

Building websites with TYPO3 Neos

/dev/var/8

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Hello !

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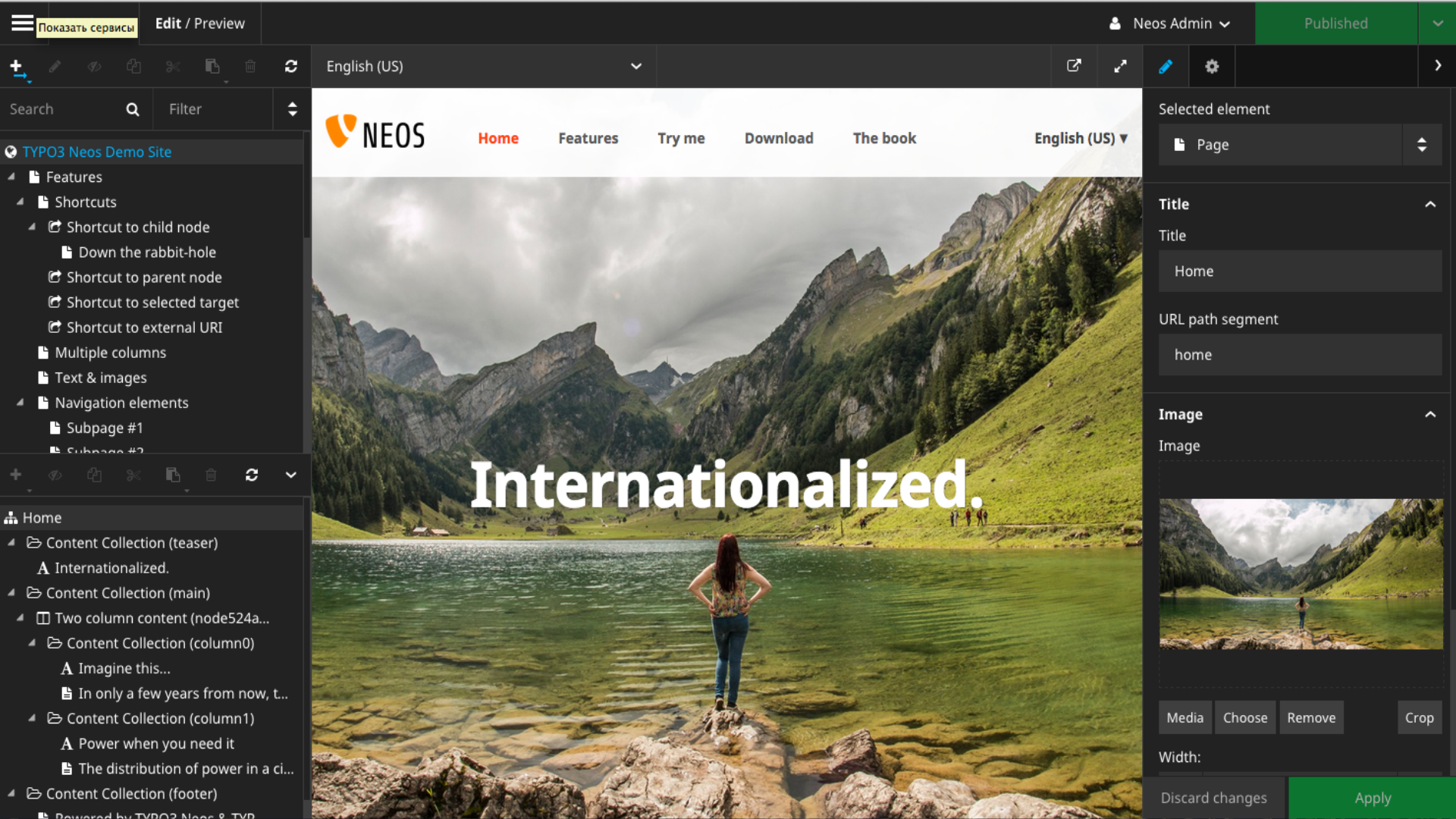
TYP03Con speaker

TYP03CAMP Toulon organizer

TYP03 Certified

demo

let's see it in action



Live Demo on Launchr

Free TYPO3 Neos Demo platform

<https://launchr.com/typo3-neos>

architecture

components & composition

Packages

Everything is TYPO3 FLOW package,
... even TYPO3 Neos !

It means :

Model-View-Controller

HTTP Support

Aspect-Oriented Programming

Security

Internationalization & Localization

Speed & Performance

Property Mapping & Validation

Resource Management

Fluid Templating

Session Handling

Error & Exception Handling

(No) Configuration

Dependency Injection

Domain-Driven Design







Command Line

Test-driven development

Sites

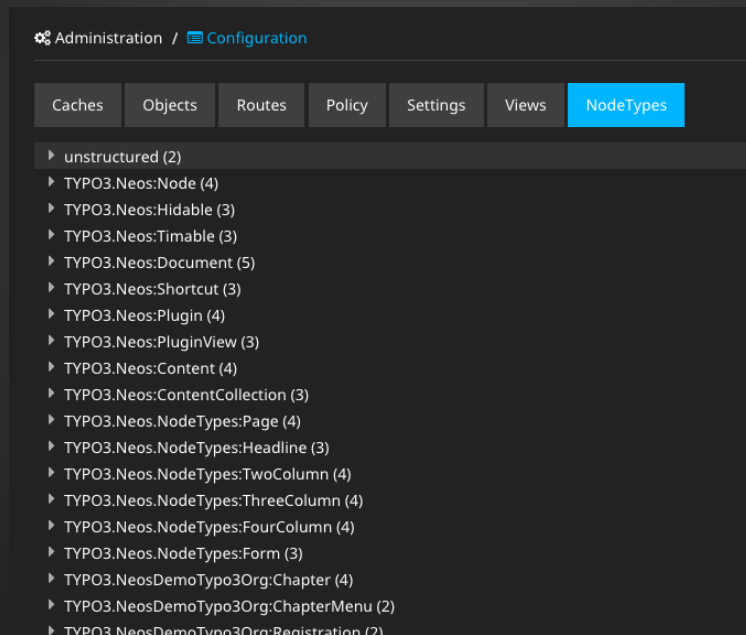
neos/administration/sites

Administration / Sites Management

Name	Rootnode name	Resource package key	State			
TYPO3 Neos Demo Site	neosedemotypo3org	TYPO3.NeosDemoTypo3Org	Active			
Test Site	testsite	FedirFR.TestSite	Active			

Node Types

neos/administration/configuration/?moduleArguments%5Btype%5D=NodeTypes



Custom Content Elements

<http://docs.typo3.org/neos/TYP03NeosDocumentation/IntegratorGuide/CustomContentElements.html>

A "Carousel" content element that renders "Image" child nodes into a JavaScript based slideshow :

```
'TYP03.NeosDemoTypo3Org:Carousel':  
  superTypes: ['TYP03.Neos:Content']  
  childNodes:  
    carouselItems:  
      type: 'TYP03.Neos:ContentCollection'  
  ui:  
    label: 'Carousel'  
    group: 'plugins'  
    icon: 'icon-picture'  
    inlineEditable: TRUE
```

TypoScript

TypoScript is fundamentally a **hierarchical, prototype based processing language** to define TYP03 Neos **site structure**.

TypoScript example

```
my {  
    image = Image  
    image.width = 200  
}
```

```
myObject = Menu {  
    @if.1 = ${q(node).property('showMenu') == true}  
}
```

results in the menu object only being evaluated if the node's showMenu property is
``true``



Embedded Expression Language (Eel) for TypeScript

<http://docs.typo3.org/neos/TYP03NeosDocumentation/IntegratorGuide/EelFlowQuery.html#eel-embedded-expression-language>

```
`${foo.bar}`           // Traversal
`${foo.bar()}`         // Method call
`${foo.bar().baz()}`   // Chained method call
`${foo.bar("arg1", true, 42)}` // Method call with
arguments
`${foo.bar(12+18.5, foo == bar)}`
```

FlowQuery

jQuery-like queries

<http://docs.typo3.org/neos/TYP03NeosDocumentation/IntegratorGuide/EelFlowQuery.html#flowquery>

```
`${q(node).property('foo')}`  
`${q(node).parents()}`  
`${q(node).children('left').first()}`  
`${q(node).children().filter('left').first()}`
```

Fizzle

CSS-like selectors

<http://docs.typo3.org/neos/TYP03NeosDocumentation/IntegratorGuide/EelFlowQuery.html#fizzle>

```
baz[foo]  
baz[answer = 42]  
baz[foo = "Bar"]  
baz[foo = 'Bar']  
baz[foo != "Bar"]  
baz[foo ^= "Bar"]  
baz[foo $= "Bar"]  
baz[foo *= "Bar"]
```

Command line interface (CLI)

<http://docs.typo3.org/typo3/NeosDocumentation/Appendixes/CommandReference.html>

typo3.neos:domain:list

typo3.neos:domain:add¶

typo3.neos:site:list¶

typo3.neos:site:export¶

typo3.neos:site:import

typo3.neos:user:list

typo3.neos:user:create

typo3.neos:user:addrole

typo3.neos:workspace:list¶

typo3.neos:workspace:publish¶

typo3.neos:workspace:discard

Code analyse

<https://github.com/fedir/NeosDemoTypo3Org>

Configuration

Resources/Private/Templates

Resources/Private/TypoScript

Classes/TYP03/NeosDemoTypo3Org/Controller

building websites

simple start

Install requirements

Requirements

LAMP server, PHP 5.3+

Composer

```
curl -s https://getcomposer.org/installer | php
```

Install TYPO3 Neos

Init site

```
cd /your/htdocs/
```

```
php /path/to/composer.phar create-project typo3/neos-base-distribution TYPO3-Neos
```

Configure permissions

```
sudo ./flow core:setfilepermissions your-cli-user www-data www-data
```

Configure your vhost

```
<VirtualHost *:80>
```

```
    DocumentRoot "/your/htdocs/TYP03-Neos/Web/"
```

```
    #SetEnv FLOW_CONTEXT Production
```

```
    ServerName neos.demo
```

```
</VirtualHost>
```

Create the Database

Create UTF-8 compatible database for Your site

Run installation wizard

Go to [yoursite.com/setup](#)

Follow proposed steps and install Your first TYPO3
Neos installation

* If something doesn't work on this step, Tweet me, probably I could make an advice :)

Integration

The best schema is :

- Practice to hack default distribution
- Create blank site
- Import selected elements from default distribution (content, node types)
- Make Your own elements (content, node types)
- Have fun =)

Summary

TYP03 Neos

- Open Source
- Modern
- Elegant
- Very Usable
- Functional
- Good code
- Free
- Configurable
- Documented
- Interesting
- Decisive
- Fast

References

General

- <http://neos.typo3.org/>
- <http://three-lines-of-code.com/basic-typo3-flow-and-typo3-neos-resources/>
- <http://www.lobacher.de/files/neos/TYP03-Neos-1.0.2-Kompendium-Patrick-Lobacher.pdf>
- <http://www.roodlicht.com/typo3-neos-or-typo3-cms/3364?lang=en>
- <http://goo.gl/jgui7w>

Official documentation

- <http://docs.typo3.org/neos/TYP03NeosDocumentation/GettingStarted/Index.html>
- <http://docs.typo3.org/neos/TYP03NeosDocumentation/GettingStarted/Installation.html>
- <http://docs.typo3.org/neos/TYP03NeosDocumentation/IntegratorGuide/Index.html>
- <http://docs.typo3.org/neos/TYP03NeosDocumentation/IntegratorsCookbook/Index.html>
- <http://docs.typo3.org/neos/TYP03NeosDocumentation/DeveloperGuide/Index.html>
- <http://docs.typo3.org/neos/TYP03NeosDocumentation/Appendixes/Index.html>

Blogs

- <https://learn-neos.com/blog.html>
- <http://dimaip.github.io/>

Github goodies

- <https://github.com/tlayh/vagrant-typo3neos>
- <https://github.com/ryzy/vc-typo3-neos>
- <https://github.com/lelesys>
- <https://github.com/sfi-ru>

Demo

- <https://launchr.com/typo3-neos>