



worldPloneday

2009 / Tokyo Part 2

An introduction to Buildout

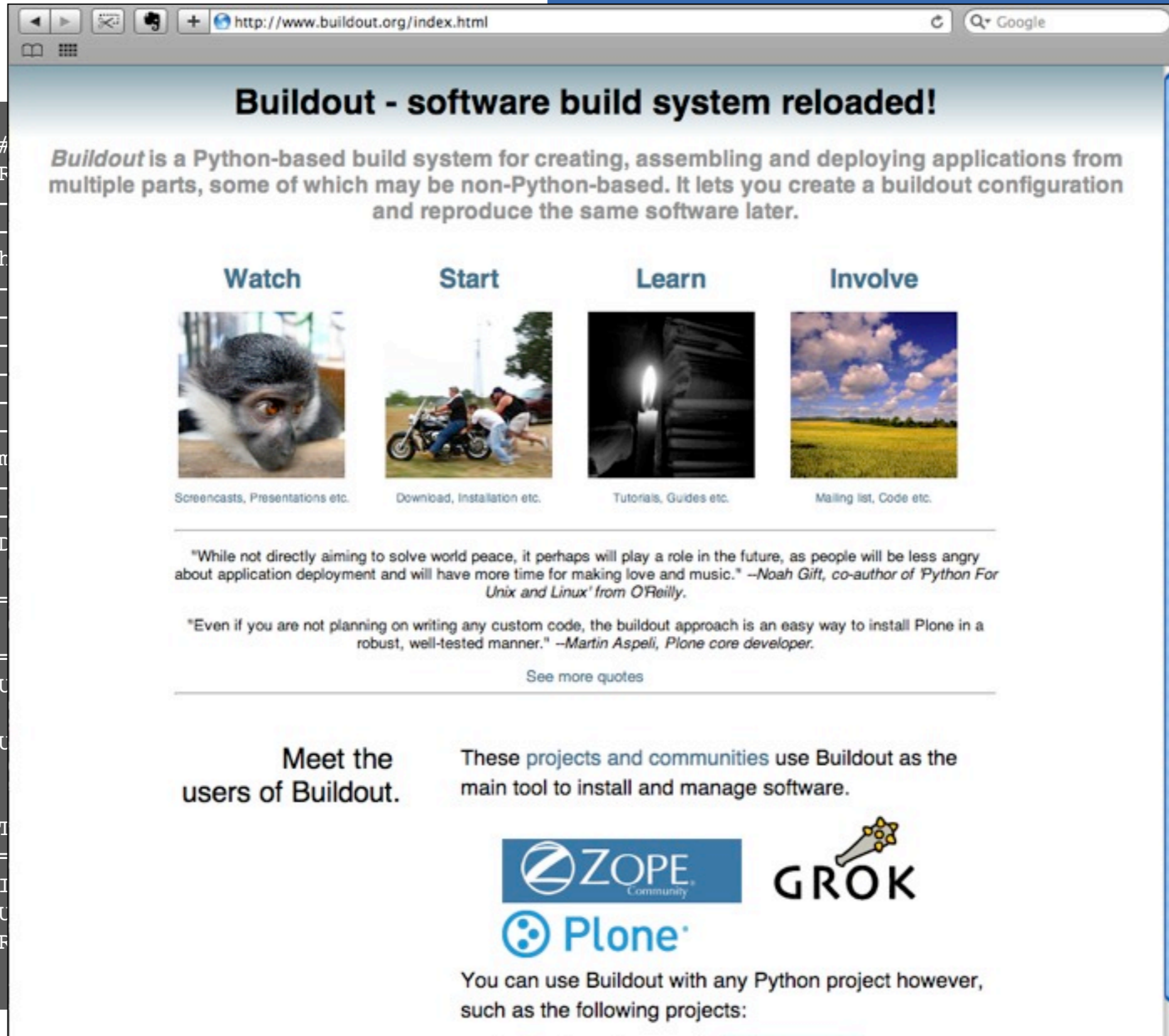
Shigeo Honda

<http://www.shigeo.net>

ricerco corp





Concept of buildout

Jim Fulton - Zope Corporation



Buildout - software build system reloaded!

Buildout is a Python-based build system for creating, assembling and deploying applications from multiple parts, some of which may be non-Python-based. It lets you create a buildout configuration and reproduce the same software later.



Watch	Start	Learn	Involve
			
Screencasts, Presentations etc.	Download, Installation etc.	Tutorials, Guides etc.	Mailing list, Code etc.


"While not directly aiming to solve world peace, it perhaps will play a role in the future, as people will be less angry about application deployment and will have more time for making love and music." --Noah Gift, co-author of *Python For Unix and Linux* from O'Reilly.

"Even if you are not planning on writing any custom code, the buildout approach is an easy way to install Plone in a robust, well-tested manner." --Martin Aspeli, *Plone core developer*.

[See more quotes](#)

Meet the users of Buildout. These projects and communities use Buildout as the main tool to install and manage software.



You can use Buildout with any Python project however, such as the following projects:



Concept of buildout

一貫性

依存関係の自動解決

同一条件でインストール

開発者の構成を継承

運営側の負担を軽減



Concept of buildout

zc.buildout

Aka buildout

egg - python egg

A way to package and distribute Python packages. Each egg contains a `setup.py` file with metadata (such as the author's name and email address and licensing information), as well as information about dependencies.

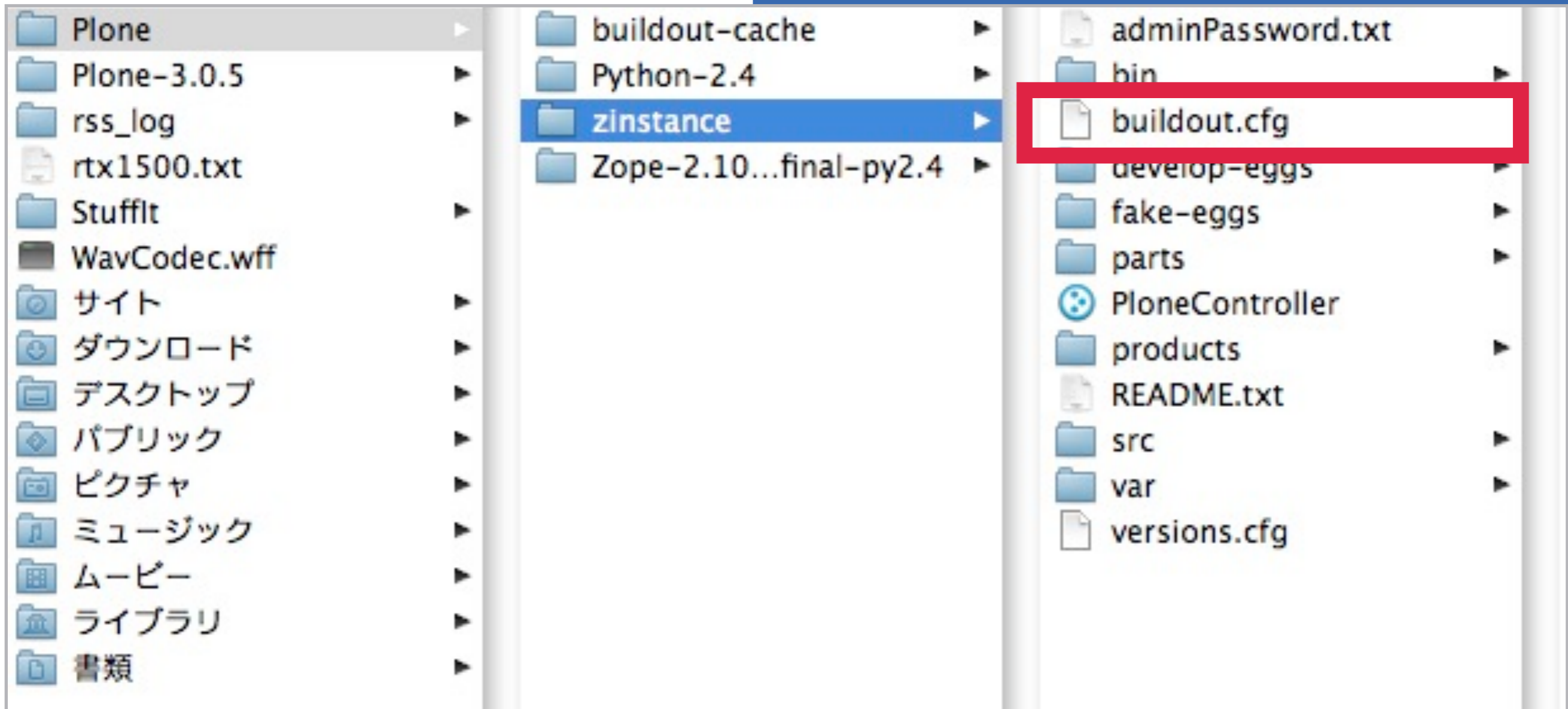
easy_install

A command-line tool for automatic discovery and installation of packages into a Python environment.

Plone Unified Installer

Plone 3.2.x

buildout ready installer





buildout.cfg

```
[buildout]
```

```
#####
```

```
# Plone Component Versions
```

```
# -----
```

```
# This version of the Unified Installer has the components  
# of Plone 3.2.2 preloaded so that it can install without  
# an Internet connection.
```

```
# If you want to update, uncomment the "extends = http://..." below,  
# edit it to point to the current version URL,  
# comment out the "extends = versions.cfg" line  
# and run bin/buildout -n  
# while attached to the Internet.
```

```
#
```

```
# extends = http://dist.plone.org/release/3.2.2/versions.cfg
```

```
extends = versions.cfg
```

```
versions = versions
```



buildout.cfg

```
#####  
# Eggs  
# ----  
# Add an indented line to the eggs section for any Python  
# eggs or packages you wish to include.  
#  
eggs =  
    Plone
```



buildout.cfg

```
# Commonly used products:
# * LinguaPlone provides tools for building multi-lingual sites
# * Products.CacheSetup adds the "CacheFu" Plone speedup kit
# * PloneHelpCenter is a simple knowledge base
# * PloneFormGen provides through-the-web form building
#
# Products.LinguaPlone
# Products.CacheSetup
# Products.PloneHelpCenter
# Products.PloneFormGen
#
###
# Products.Clouseau
# Products.DocFinderTab
# Products.DocFinderTab
# Products.Gloworm
# Products.Gloworm
# plone.reload
# plone.reload
```




Install Products

```
$ ./bin/buildout
```

```
Uninstalling zopeskel.  
Uninstalling zopepy.  
Uninstalling instance.  
Updating zope2.  
Updating fake eggs  
Updating productdistros.  
Installing instance.
```

```
Getting distribution for 'Products.LinguaPlone'.
```

```
File "build/bdist.macosx-10.3-i386/egg/Products/LinguaPlone/  
skins/LinguaPlone/getDeletableLanguages.py", line 22  
    return languages
```

```
.....  
Got Products.LinguaPlone 2.4.
```

```
Getting distribution for 'Products.PloneHelpCenter'.
```

```
Got Products.PloneHelpCenter 1.6.1.  
Generated script '/Users/shigeo/Plone/zinstance/bin/instance'.
```



Syntax Error

```
SyntaxError: 'return' outside function
```

```
File "build/bdist.macosx-10.3-i386/egg/Products/  
LinguaPlone/skins/LinguaPlone/getTranslatedLanguages.py",  
line 14
```

```
    return languages
```

```
SyntaxError: 'return' outside function
```

```
File "build/bdist.macosx-10.3-i386/egg/Products/LinguaPlone/skins/  
LinguaPlone/getUntranslatedLanguages.py", line 14
```

```
    return languages
```

```
SyntaxError: 'return' outside function
```

```
File "build/bdist.macosx-10.3-i386/egg/Products/LinguaPlone/skins/  
LinguaPlone/mimetypesToRenderInTranslationForm.py", line 17
```

```
    return ('text/html',)
```

```
SyntaxError: 'return' outside function
```

```
File "build/bdist.macosx-10.3-i386/egg/Products/LinguaPlone/skins/  
LinguaPlone/translationbrowser_queryCatalog.py", line 81
```

```
    return results
```

Install Products

インストール可能なプロダクト


-  **LinguaPlone 2.4**
Multi-lingual support for Plone
 プロダクトの説明
-  **Marshall 1.1-dev**
-  **NuPlone 1.0b3**
An alternative theme for Plone 3
-  **OpenID Authentication Support 1.1**
Adds support for authenticating with OpenID credentials in a Plone site
 プロダクトの説明
-  **PloneHelpCenter 1.6.1**
What's powering the documentation section on plone.org
 プロダクトの説明
-  **Workflow Policy Support (CMFPlacefulWorkflow) 1.4.0**
Add in Plone the capability to change workflow chains for types in every object.
-  **Working Copy Support (Iterate) 1.2.3**
Adds working copy support (aka. in-place staging) to Plone.
 プロダクトの説明

 インストール

Install Products


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[プロダクトの説明](#)

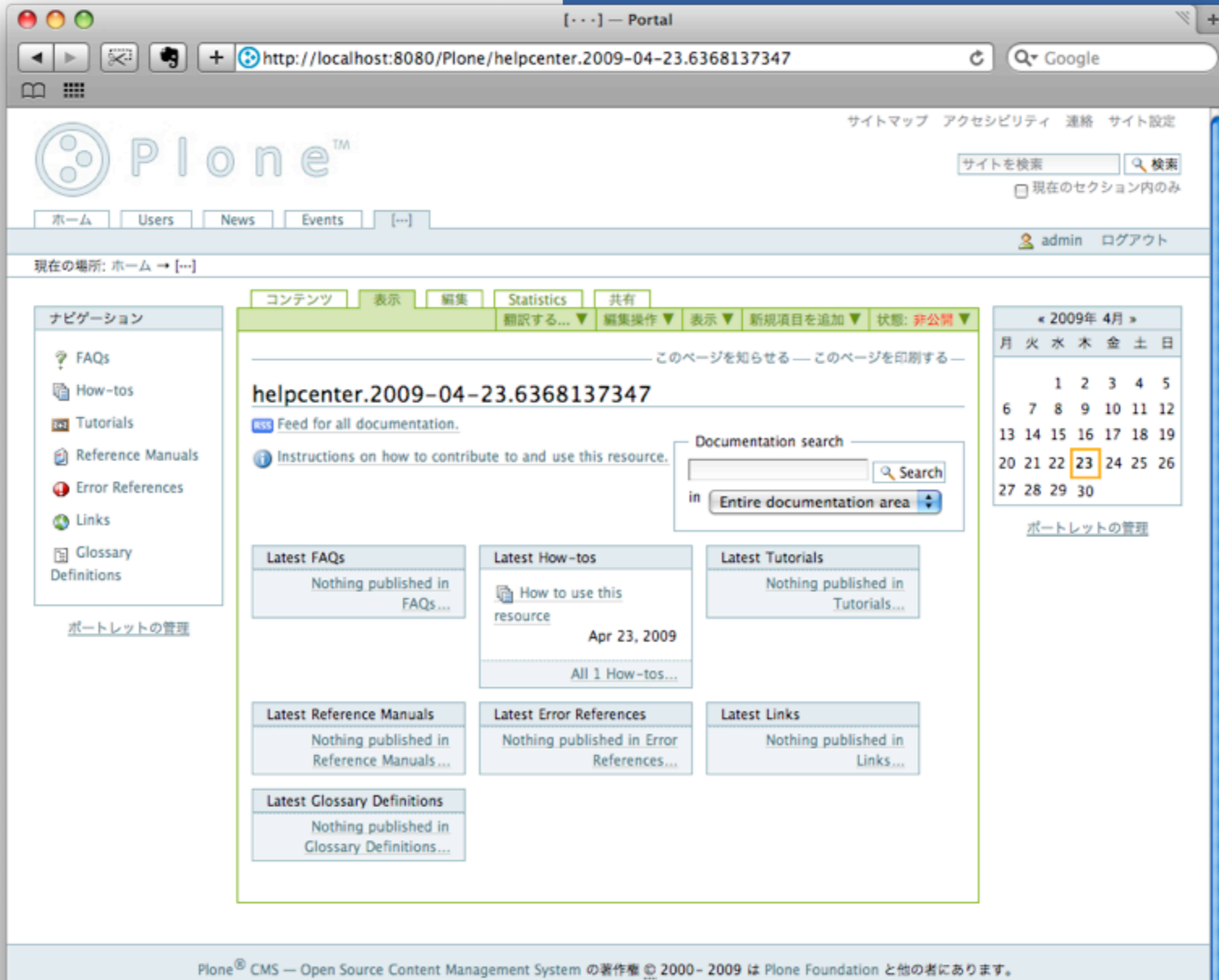
 インストール

インストール済みのプロダクト

-  **LinguaPlone 2.4**
Multi-lingual support for Plone
[プロダクトの説明](#) [インストールログ](#)
-  **PloneHelpCenter 1.6.1**
What's powering the documentation section on plone.org
[プロダクトの説明](#) [インストールログ](#)

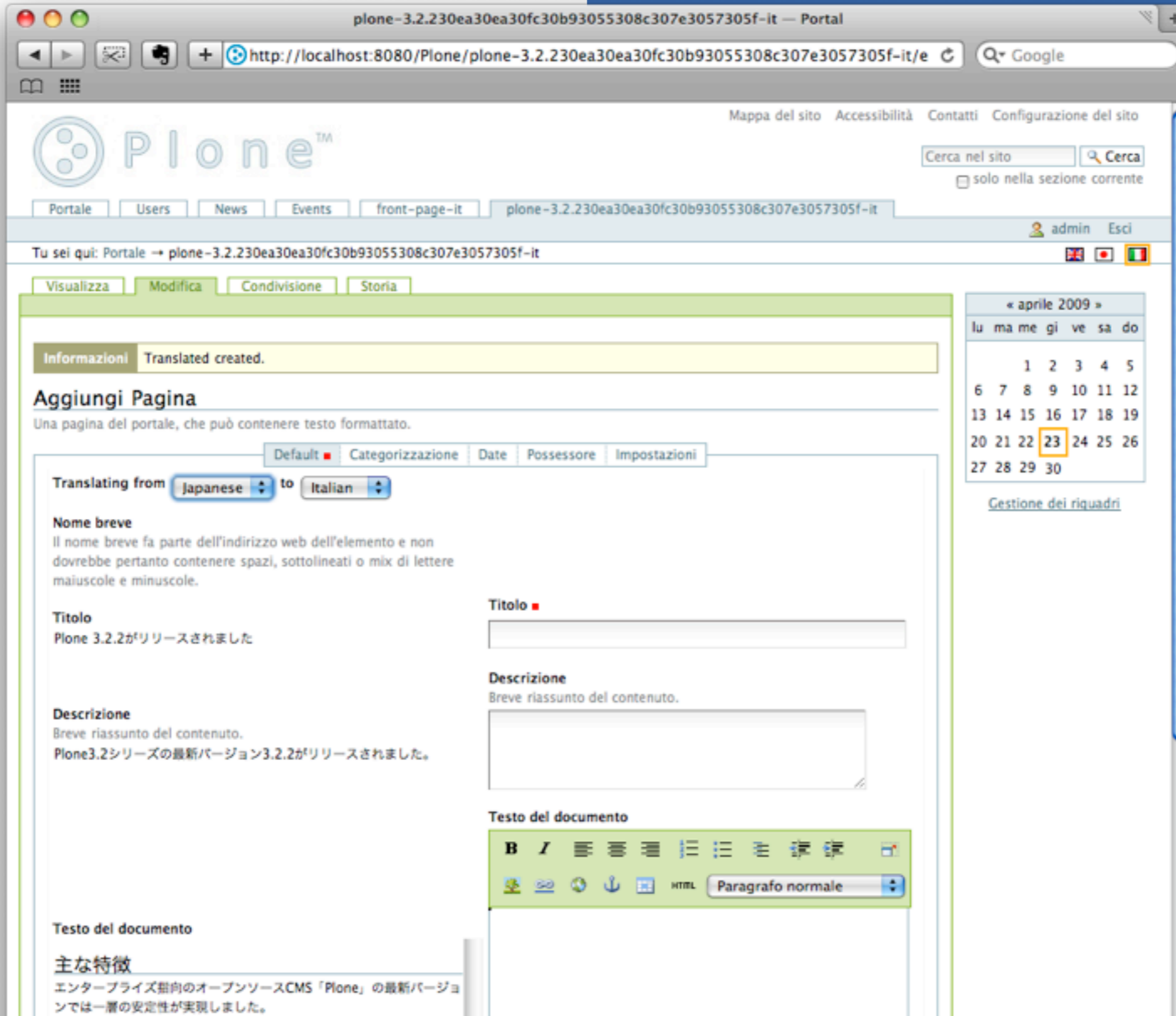
 アンインストール

Install Products



The screenshot shows a web browser window displaying the Plone CMS installation page. The browser's address bar shows the URL `http://localhost:8080/Plone/helpcenter.2009-04-23.6368137347`. The page features the Plone logo and navigation links for Home, Users, News, and Events. A search bar is present with the text "サイトを検索" and a "検索" button. The user is logged in as "admin" with a "ログアウト" link. The main content area is titled "helpcenter.2009-04-23.6368137347" and includes a "Documentation search" box. A calendar for April 2009 is visible on the right, with the 23rd highlighted. The page footer contains the text: "Plone® CMS — Open Source Content Management System の著作権 © 2000 - 2009 は Plone Foundation と他の者にあります。"

Install Products



The screenshot shows a web browser window displaying the Plone CMS installation interface. The browser's address bar shows the URL: `http://localhost:8080/Plone/plone-3.2.230ea30ea30fc30b93055308c307e3057305f-it/e`. The page title is "plone-3.2.230ea30ea30fc30b93055308c307e3057305f-it — Portal".

The page features the Plone logo and navigation links: "Mappa del sito", "Accessibilità", "Contatti", and "Configurazione del sito". A search bar is present with the text "Cerca nel sito" and a "Cerca" button. Below the search bar, there is a checkbox labeled "solo nella sezione corrente".

The main content area is titled "Aggiungi Pagina" (Add Page) and includes a description: "Una pagina del portale, che può contenere testo formattato." (A page of the portal, which can contain formatted text). The page is currently in the "Default" state, with tabs for "Categorizzazione", "Date", "Possessore", and "Impostazioni".

The "Translating from" section shows "Japanese" selected in the "from" dropdown and "Italian" selected in the "to" dropdown. The "Nome breve" (Short name) field is empty, with a note: "Il nome breve fa parte dell'indirizzo web dell'elemento e non dovrebbe pertanto contenere spazi, sottolineati o mix di lettere maiuscole e minuscole." (The short name is part of the web address of the element and should not contain spaces, underlines, or a mix of uppercase and lowercase letters).

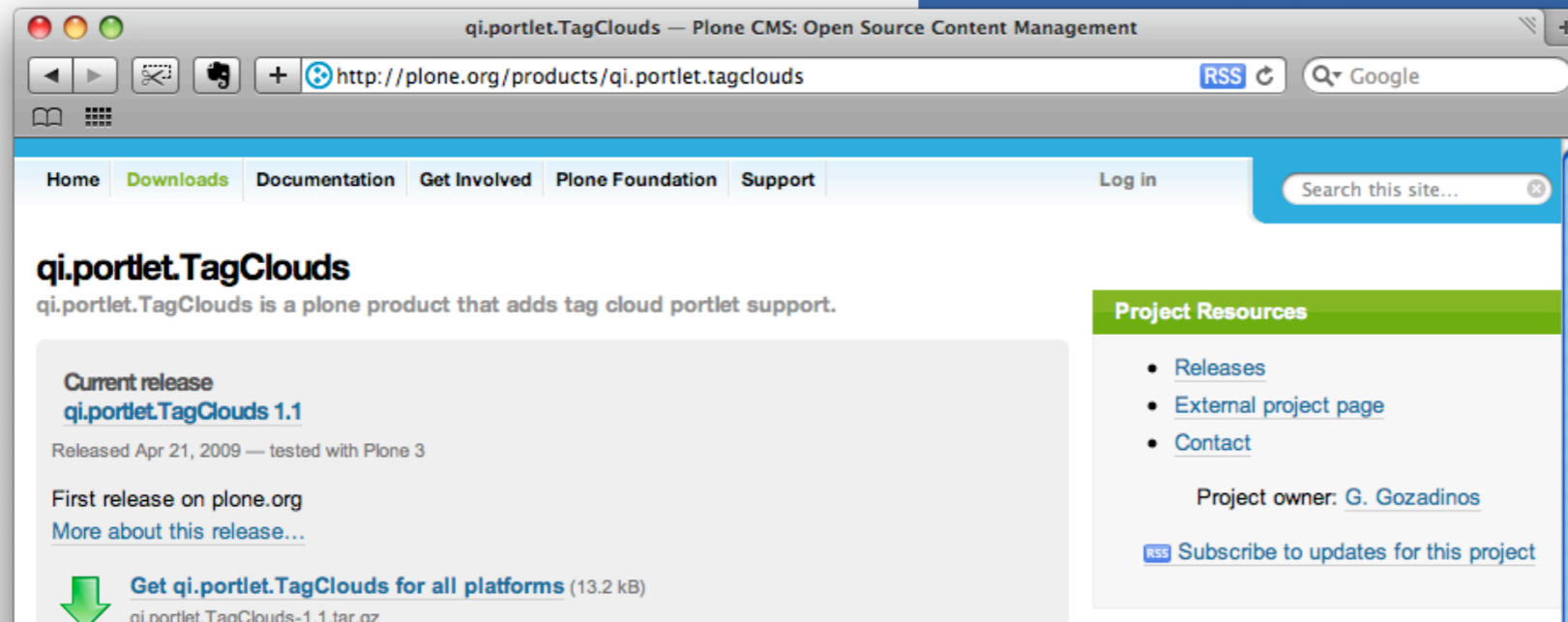
The "Titolo" (Title) field contains the text "Plone 3.2.2がリリースされました" (Plone 3.2.2 has been released). The "Descrizione" (Description) field contains the text "Plone3.2シリーズの最新バージョン3.2.2がリリースされました。" (The latest version 3.2.2 of the Plone 3.2 series has been released).

The "Testo del documento" (Document text) field is empty, with a rich text editor toolbar visible above it. The toolbar includes buttons for bold (B), italic (I), bulleted list, numbered list, link, unlink, and other formatting options. The current text format is set to "Paragrafo normale" (Normal paragraph).

On the right side of the page, there is a calendar for April 2009. The date 23 is highlighted in orange. Below the calendar is a link labeled "Gestione dei riquadri" (Manage Widgets).

At the bottom of the page, the "Testo del documento" field contains the text "主な特徴" (Main features) followed by a paragraph: "エンタープライズ向けのオープンソースCMS「Plone」の最新バージョンでは一層の安定性が実現しました。" (The latest version of the enterprise-oriented open-source CMS "Plone" has achieved even greater stability).

Install Products



Installation

Using buildout add `qi.portlet.TagClouds` to your eggs and zcml sections.

```
[buildout]
...
eggs =
    ..
    qi.portlet.TagClouds
[instance]
recipe = plone.recipe.zope2instance
...
zcml =
    qi.portlet.TagClouds
```

Re-run buildout.



worldPloneday

2009 / Tokyo Part 2

Thank you.