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Factory
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Plonely in Austin

An Introduction to Plone

Discussion

- 0 Who am I?
- 0 If Zope is a fish, what is Plone?
- 0 Pros & Cons of Plone
- 0 Prerequisites
- 0 Two ways to get started
- 0 The [parts] of Buildout
- 0 Content Types with Paster
- 0 Zope Page Templates (ZPT)
- 0 Resources

Who am I?



Education

Senior Manager Decernis

6 years Plone Development &
Project Management

MA – Carnegie Mellon University

MSc – University of Bologna

Certified Scrum Master (CSM)

If Zope is a fish, what is Plone?



A very brief history

1995 – Zope Corp founded

1998 – Zope 2 released

1999 – Plone project begun to skin CMFDefault

2001 – Plone 1 released

2004 – Zope 3 presents a new paradigm

2004 – Plone 2 released

2005 – Five (Zope 2 + 3) released

2006 – Grok project started

2007 – Plone 3 released

2009 – Pyramid branches off

2010 – Zope Toolkit (ZTK)

2010 – Plone 4 released

Who uses Plone?



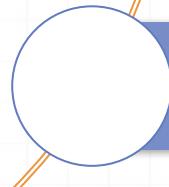
Governments/Agencies: Brazil, FBI, NASA, USAID...



NGOs: Oxfam, Amnesty International, ...



Universities: Wisconsin, Penn State, Harvard SEAS...



Companies: Discover Magazine, Novell...

Pros & Cons

- Intranets
- Shared documents
- Powerful workflow
- Batteries included
- Most secure CMS
- Well-documented
- Many developers
- Application & Framework

- Non-standard setup
- High learning curve
- Confusing stack
- Theming is hard
- RAM hungry
- Not broadly adopted

Why I chose Plone

- 0 Security a major concern
- 0 Customized workflow major need
- 0 Stable code base
- 0 Used by peer organizations in regulatory sector
- 0 Batteries Included: User Management, Content Types, Workflow, Cacheing, Clustered Databases...
- 0 Ease of content type development
- 0 Django too bleeding edge in 2008
- 0 Community involvement

Prerequisites

- 0 Internet Connection
- 0 Plone 4.2+ supports Python 2.7
- 0 PIL, GCC
- 0 virtualenv/virtualenvwrapper
- 0 Xcode (Mac)
- 0 Python Windows Extension (Windows)
- 0 Root access for production (VPS, Server, Laptop, etc.)

Mac: `export ARCHFLAGS="-Wno-error=unused-command-line-argument-hard-error-in-future"`

The Plone Stack

Basic

- Webserver
- Zope

Intermediate

- Web Server
- ZEO Clients
- ZEO Server

Advanced

- Web Server
- Proxy/Load Balancer
- ZEO Clients
- ZEO Server

Two ways to get started



Unified
Installer

Buildout

Unified Installer is easy

```
$ wget https://launchpad.net/plone/
4.2/4.2.4/+download/Plone-4.2.4-
UnifiedInstaller-r3.tgz
$ tar -zxvf Plone-4.2.4-UnifiedInstaller-
r3.tgz
$ cd Plone-4.2.4-UnifiedInstaller-r3
$ ./install.sh --target=/Users/patrickwaldo/
workspace/plone-demo --instance=awpug-test --
static-lxml=yes standalone
$ cd /Users/patrickwaldo/workspace/plone-demo
$ ./bin/instance fg
```

THE #1 PLONE PROGRAMMER EXCUSE
FOR LEGITIMATELY SLACKING OFF:

"MY BUILDOUT IS RUNNING"



The [parts] of Buildout

Getting started

```
$ mkdir awpug-plone
$ virtualenv --no-site-packages awpug-
python
$ cd awpug-plone
$ wget http://svn.plone.org/svn/plone/
buildouts/plone-coredev/branches/4.2/
bootstrap.py
$ vi buildout.cfg
```

The [parts] of Buildout

```
[buildout]
extends =
    http://dist.plone.org/release/4.2/
versions.cfg
parts += instance zopepy zopeskel
eggs =
    Pillow
develop =
zcml =
```

The [parts] of Buildout cont'd

```
[instance]
recipe = plone.recipe.zope2instance
user = admin:admin
eggs =
    Plone
    ${buildout:eggs}
```

```
[zopepy]
recipe = zc.recipe.egg
eggs = ${buildout:eggs}
interpreter = zopepy
scripts = zopepy
```

The [parts] of Buildout cont'd

```
[zopeskel]
recipe = zc.recipe.egg
eggs =
    ZopeSkel
    Paste
    PasteDeploy
    PasteScript
    ${buildout:eggs}
```

Bootstrapping it all together

```
$ cd awpug-demo  
$ ../../awpug-python/bin/python  
bootstrap.py  
$ ./bin/buildout  
$ ./bin/instance fg
```

Default Content Types



Page



Folder



Collection



News Item



Event



File



Image



Link

Content Types with Paster

```
$ paster create --list-templates  
$ paster create -t archetype  
awpug.content  
$ cd awpug.content  
$ paster addcontent contenttype
```

Remember to add your new package to your buildout!

Let's add a view

```
$ cd src/awpug.content  
$ paster addcontent view
```

Zope Page Templates (ZPT)

`tal:content` = Fill tag with your content

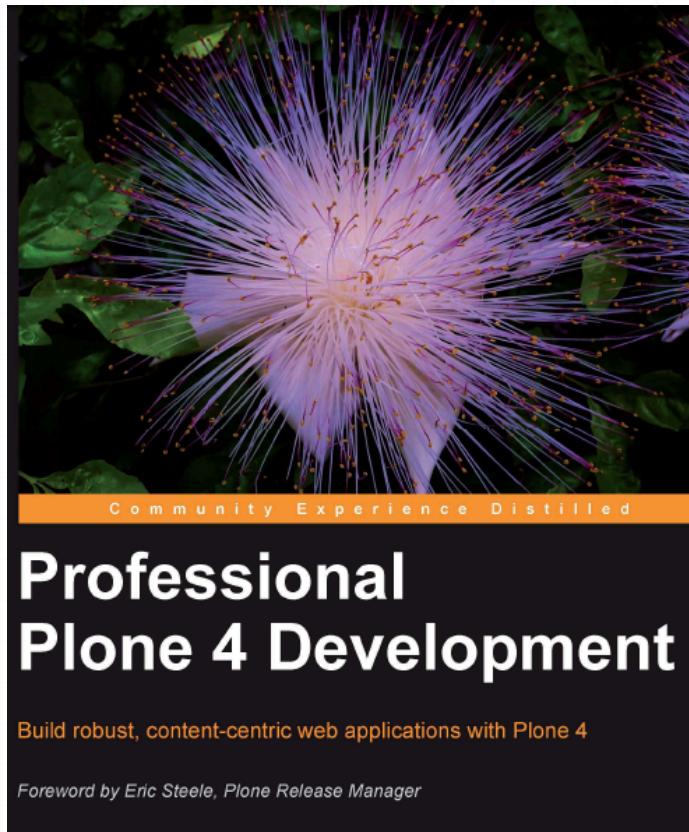
`tal:replace` = Replace tag with content

`tal:condition` = If condition, then display tag

`tal:repeat` = Iterate through an object

`tal:attributes` = Fill a tag attribute (e.g. href)

Resources



docs.plone.org
[#plone](#) [irc.freenode.net](#)

Thank you!



**Services and Systems to Help you Comply
in Global Markets**

