



Demystifying Plone

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Jim Leek, Engineering Science

ICT Forum 2009 Conference
15th July 2009, Saïd Business School, University of Oxford



Overview

- Why a Content Management System (CMS)?
- Why Plone?
- Current perceptions(?)
- Companies
- Community
- Add-on Products
- What exactly is Plone?
- Python
- Zope
- A second look at Plone
- Demo - installing Plone
- Further reading & Links

Why a CMS?

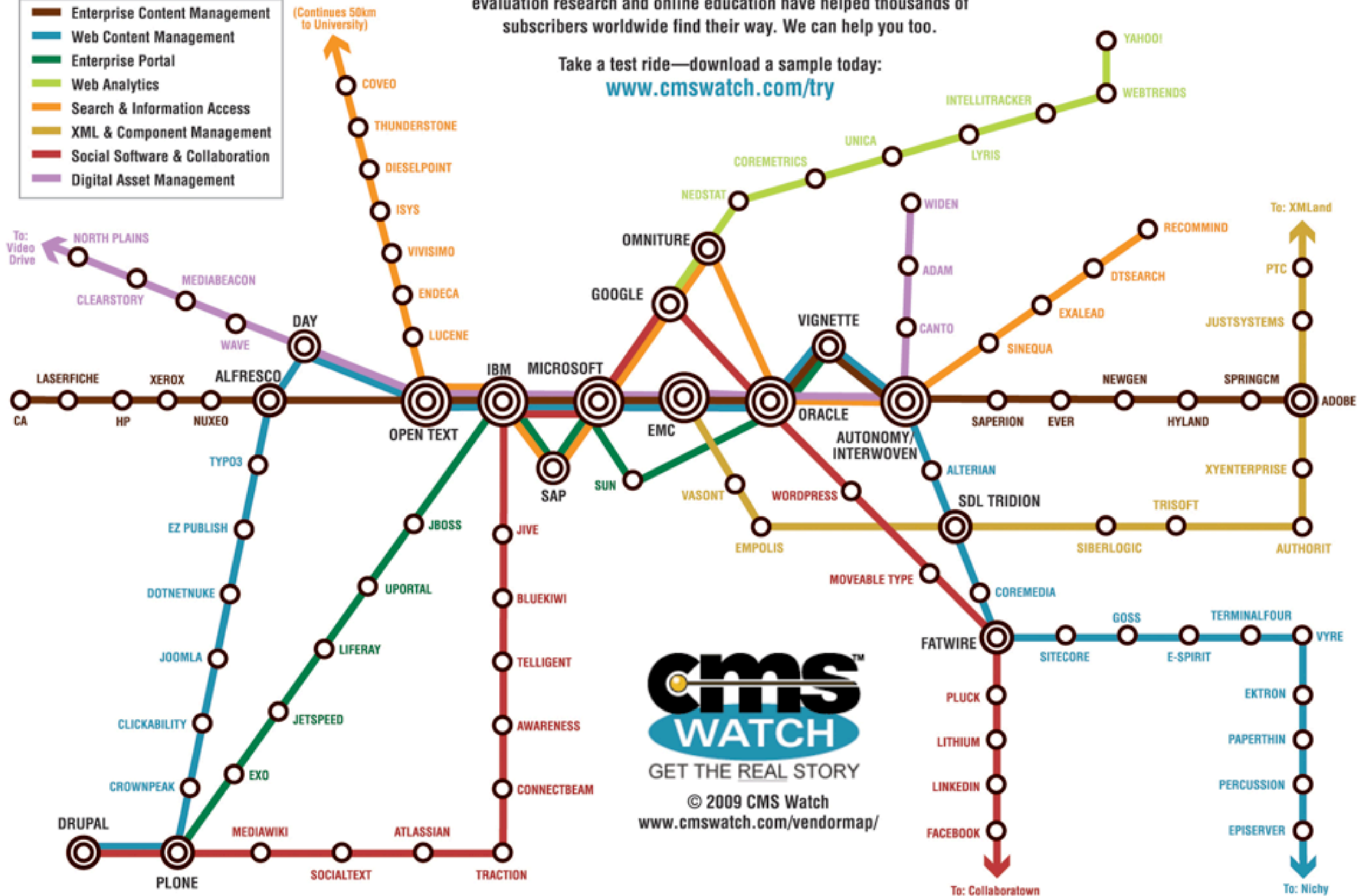
- The beginning: index.html
- Then: Dynamic pages: ASP, PHP, SQL etc.
- Now: Lots of scripts, 'webmaster' required
 - All edits need technical expertise
- **Or:** A CMS such as Plone...

2009 Content Technology Vendor Map

- KEY**
- Enterprise Content Management
 - Web Content Management
 - Enterprise Portal
 - Web Analytics
 - Search & Information Access
 - XML & Component Management
 - Social Software & Collaboration
 - Digital Asset Management

CMS Watch simplifies the content technology space. Our product evaluation research and online education have helped thousands of subscribers worldwide find their way. We can help you too.

Take a test ride—download a sample today:
www.cmswatch.com/try



CMS WATCH
 GET THE REAL STORY
 © 2009 CMS Watch
www.cmswatch.com/vendormap/

Why Plone?

The screenshot shows the Plone CMS website homepage. At the top, the browser title is "Plone CMS: Open Source Content Management" and the address bar shows "http://plone.org/". The navigation menu includes "Home", "Downloads", "Documentation", "Get Involved", "Plone Foundation", "Support", and "Log in". A search bar is located on the right. The main content area features the Plone logo and a large blue box titled "What is Plone?" with a background image of a branch with buds. To the right of this box are three event banners: "worldPloneday April 22, 2009", "PLONE SYMPOSIUM EAST PENN STATE 2009 May 26-31, 2009", and "EUROPEAN PLONE SYMPOSIUM 2009 May 11-17, 2009". Below the main content are three columns: "Plone is among the top 2% of all open source projects worldwide...", "News" (with two items), and "Upcoming Events" (with two items). A "Get Plone" section at the bottom right features a "DOWNLOAD NOW" button for "Plone 3.2.2 · Apr '09".

Plone CMS: Open Source Content Management

http://plone.org/

Home Downloads Documentation Get Involved Plone Foundation Support Log in

Search this site...

Plone®

What is Plone?

A powerful, flexible Content Management solution that is easy to install, use and extend

Plone lets non-technical people create and maintain information using only a web browser. Perfect for web sites or intranets, Plone offers superior security without sacrificing extensibility or ease of use.

→ Explore the possibilities

worldPloneday

April 22, 2009

PLONE SYMPOSIUM EAST PENN STATE 2009

May 26-31, 2009

EUROPEAN PLONE SYMPOSIUM 2009

May 11-17, 2009

Plone is among the top **2%** of all open source projects worldwide, with **200** core developers and more than **300** solution providers in **57** countries. The project has been actively developed since **2001**, is available in more

News	Upcoming Events
<p>Plone launches user feedback system</p> <p>Jun 19, 2009</p>	<p>TriZPUG June 2009 Meeting</p> <p>Duke University, North Pavillion, 2400 Pratt St, Durham, NC 27705</p> <p>Jun 25, 2009</p>
<p>Plone Featured in "How to Sponsor an Open Source Sprint"</p> <p>Jun 11, 2009</p>	<p>EuroPython 2009 conference</p> <p>Birmingham, United Kingdom</p> <p>Jun 29, 2009</p>

Get Plone

DOWNLOAD NOW
Plone 3.2.2 · Apr '09

Why Plone?

- Free and open source (GPL) CMS
- Enterprise level CMS
- Very feature rich 'out of the box'
 - Version control, Workflow, Users and groups etc, Extensible add-on products
 - Keeps up with new technologies (RSS etc.)
- Produces accessible Web pages (WAI-AA, Section 508 etc)
- Search Engine Visibility
- User friendly
- Versatility
- Active community

Current perceptions(?)

- It's not PHP & MySQL
- “We need a company/commercial solution”
 - It doesn't do... [insert requirement here]
 - All Plone sites look the same
- Plone is slow
- ‘Weird’, ‘difficult to use’ etc.

Companies

Open source doesn't mean you have to build everything - you can still pay to have Plone sites developed by companies.

- Netsight <http://www.netsight.co.uk/>
- Sharkbyte Studios <http://sharkbyte.co.uk/>
- Jarn <http://www.jarn.com/>
- Enfold Systems <http://www.enfoldsystems.com/>

Community



Community

- Oxford Plone mailing list
plone-discuss-subscribe@maillist.ox.ac.uk
- ZOPE List at JISCMAIL.AC.UK:
zope@jiscmail.ac.uk
- Plone forums
<http://plone.org/support/forums>
- Plone Chat Room
<http://plone.org/support/chat>

Community

Oxford Plone community includes:

- Medical Sciences
Anne Bowtell & Tjitske Kamphuis
- Engineering Sciences
Jim Leek
- International Development
John Pilbeam
- Oxford e-Research Centre
Adi Himpson

Plone at Oxford



Plone at Oxford

The screenshot shows a web browser window with the URL <http://www.medsci.ox.ac.uk/>. The page title is "Medical Sciences Division". The browser's address bar includes navigation buttons and a search bar with the text "Google".

The website header features a navigation menu with links for "Skip to content", "Accessibility", and "Sitemap". A search box labeled "Search Site" is positioned next to the University of Oxford logo, which includes the text "UNIVERSITY OF OXFORD".

The main content area is titled "MEDICAL SCIENCES DIVISION". It contains a large introductory paragraph: "We are an internationally recognized centre of excellence for biomedical and clinical research and teaching, and the largest academic division in the University of Oxford." Below this, a smaller paragraph states: "World-leading programmes, housed in state-of-the-art facilities, cover the full range of scientific endeavour from the molecule to the population. With our NHS partners we also foster the highest possible standards in patient care." At the bottom of this section are links for "Departments & Units", "Head of Division", "Contact us", and "Intranet".

To the right of the introductory text is a photograph of a modern building with yellow and grey panels.

Below the introductory text are three columns of navigation links:

- UNDERGRADUATE STUDY**
 - Biochemistry
 - Experimental Psychology
 - Psychology, Physiology and Philosophy
 - Physiological Sciences
 - Medicine
- GRADUATE STUDY**
 - Research Degrees
 - MSc Courses
 - Postgraduate Studentships
 - Skills Training
 - Medical Sciences Doctoral Training Centre
- RESEARCH**
 - Research Themes
 - Partnerships
 - Oxford Research Showcase

Below these columns are three more columns of navigation links:

- QUICK LINKS**
 - Intranet
 - Health Care Libraries
 - IMSU
 - University Staff Directory
- THE DIVISION**
 - Departments
 - Head of Division
 - Contact & Maps
- BENCH TO BEDSIDE**
 - Oxford Biomedical Research Centre
 - Academic Clinical Fellowships
 - Oxford Radcliffe Hospitals NHS Trust

On the right side of the page, there is a news article titled "INTERNATIONAL NETWORK RECEIVES \$20M TO COMBAT MALARIA DRUG RESISTANCE". The article text reads: "An international network of malaria scientists is to be established to map the emergence of resistance to antimalarial drugs and guide global efforts to control and eradicate the disease, thanks to a \$20m (£12.5m) grant from the Bill & Melinda Gates Foundation." Below the article is a "Read more" link.

Below the news article are two promotional banners:

- "→ Alumni" with a small image of a building.
- "Oxford Thinking The Campaign for the University of Oxford" featuring a portrait of a man.
- "→ Giving" with a small image of a glass.

At the bottom right, there is a "WHAT'S ON" section with a date box showing "MON 22" and the text "Oxford Online Debates: 'The NHS should not treat'".

Plone at Oxford

Many sites including:

- Keble College
- Queen's College
- Medical Sciences Division
 - 14 Depts, 6 Themes & Subject Areas, 14 Research Units & Institutes, 3 Intranets and 9 others
- Oxford e-Research Centre
- Oxford University Student Union & Sport
- Department of International Development
- Department of Engineering Science

Plone in Higher Education

- Birkbeck College <http://www.bbk.ac.uk/>
- Bristol University <http://www.bris.ac.uk/>
- University of Leicester <http://www2.le.ac.uk/>
- UCLA (subsites)
- Pennsylvania State University (WebLion)
<http://weblion.psu.edu/>

Plone in other institutions

The image shows a screenshot of the NASA Science website. At the top, the browser address bar shows 'http://nasascience.nasa.gov/'. The page features the NASA logo and the text 'NATIONAL AERONAUTICS AND SPACE ADMINISTRATION'. Navigation links include 'Home', 'Big Questions', 'Earth', 'Heliophysics', 'Planets', 'Astrophysics', 'Missions', 'About Us', and 'Science News'. A search bar labeled 'NASA Science Live Search' is present. The main content area is titled 'Welcome to NASA SCIENCE ...and far' and includes sub-sections for 'For Researchers', 'For Educators', 'For Kids', and 'Citizen Scientists'. A 'SCIENCE NEWS' section lists recent articles such as 'Galactic link to climate change in doubt', 'QuikScat Satellite Detects Extratropical Cyclones', 'GOES-O Weather Satellite to Launch Today', and 'Mars Rover Yielding New Clues While Lodged in Martian Soil'. Below this are four main topic cards: 'Earth' (with a globe image), 'Heliophysics' (with a sun image), 'Planets' (with a ringed planet image), and 'Astrophysics' (with a nebula image). Each card lists related topics. At the bottom, there are sections for 'Image of the Day', 'Spotlight Mission', and 'Top Search Terms'.

NASA Science

http://nasascience.nasa.gov/

NASA NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Visit NASA.gov Glossary
Contact Us Site Map

NASA Science Live Search GO!

Home Big Questions Earth Heliophysics Planets Astrophysics Missions About Us Science News

Welcome to
NASA SCIENCE ...and far

For Researchers For Educators For Kids Citizen Scientists

SCIENCE NEWS

- Galactic link to climate change in doubt
- QuikScat Satellite Detects Extratropical Cyclones
- GOES-O Weather Satellite to Launch Today
- Mars Rover Yielding New Clues While Lodged in Martian Soil

Earth

- Atmospheric Composition
- Weather
- Carbon Cycle & Ecosystems
- Water & Energy Cycles
- Climate Variability and Change
- Earth Surface & Interior

Heliophysics

- Sun
- Heliosphere
- Magnetospheres
- Space Environment

Planets

- Inner Solar System
- Outer Solar System
- Small Bodies of the Solar System

Astrophysics

- The Big Bang
- Dark Energy, Dark Matter
- Stars
- Galaxies
- Black Holes
- Planets Around Other Stars

Image of the Day Spotlight Mission Top Search Terms

Plone in other institutions

- NASA Science <http://nasascience.nasa.gov/>
- Brazilian Government <http://www.brasil.gov.br/>
- Free Software Foundation <http://www.fsf.org/>
- Church of England <http://www.cofe.anglican.org/>
- CIA <https://www.cia.gov/>
- Linux.co.uk <http://linux.co.uk/>
- Wimax.com <http://www.wimax.com/>

1740 more listed at: <http://plone.net/sites/>

Add-on Products

Extend functionality of Plone - over 1,000 at <http://plone.org/products>

- Linguaplone: multilingual websites
- Plone FormGen: easy form builder
- Faculty/Staff Directory: create and organise staff pages
- Oxford developed researcher product


Add-on Products

Directory

▲ Up one level


Faculty Staff Graduate Students

Faculty




John Bagby
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Co-Director Institute for Information Policy

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[More about Terry Etherton...](#)

What exactly is Plone?

Plone

Zope

Python

Python



Python

- Python is a fully Object Oriented programming language.
- As such it has objects, classes, inheritance, encapsulation etc.
- It is also open source.



So why use Python?

Zope

- Zope is web application server (i.e. a piece of software for developing web applications).
- Zope Features:-
 - It is designed to develop and run applications through the web browser - part of its raison d'être.
 - It has a built in database (the ZODB).
 - It speaks HTTP (i.e. it is a webserver).
 - It has its own scripting language for writing conditional statements, loops etc.
- It has many other features out-of-the-box (search engine, mail server, ACLs).

A second look at Plone

Plone

Zope

Python



You are here: Home

[Contents](#)
[View](#)
[Edit](#)
[Rules](#)
[Sharing](#)
[History](#)
[Display ▼](#)
[Add new... ▼](#)
[State: Published ▼](#)

Welcome to Plone

by [admin](#) — last modified Jun 30, 2009 10:59 AM

Congratulations! You have successfully installed Plone.

[Also available in presentation mode...](#)

If you're seeing this instead of the web site you were expecting, the owner of this web site has just installed Plone. Do not contact the Plone Team or the Plone mailing lists about this.

Get started

Before you start exploring your newly created Plone site, please do the following:

1. Make sure you are logged in as an admin/manager user. (You should see a Site Setup link in the top right corner)
2. [Set up your mail server](#). (Plone needs a valid SMTP server to verify users and send out password reminders)
3. [Decide what security level you want on your site](#). (Who can join, password policies, etc)

Get comfortable

After that, we suggest you do one or more of the following:

- Find out [What's new in Plone 3](#).
- Read the [documentation](#), especially the [What documentation should I read](#) and [Server setup recommendations](#).
- Explore the [available add-on products](#) for Plone.

[Read and/or subscribe to the support forums](#)

« June 2009 »

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

[Manage portlets](#)

What do you need to know?

Plone

Zope

Python

Site Setup

Configuration area for Plone and add-on Products.

Plone Configuration

 Add-on Products

 Calendar

 Collection

 Content Rules

 Errors

 HTML Filtering

 Language

 Mail

 Maintenance

 Markup

 Navigation

 Search

 Security

 Site

 Themes

 Types

 Users and Groups

 Visual editor

 Zope Management Interface

What do you need to know?

Plone

Zope

Python

The screenshot shows the Zope Management Interface (ZMI) for a Plone site. The interface is titled "Zope" and shows the user is logged in as "admin". The current page is "Plone Site at /Intranet/Intranet". The left sidebar shows a tree view of the site structure, with "Intranet" selected. The main content area displays a table of content types, including "CacheSetup_OFSCache", "CacheSetup_PageCache (Page Cache Manager)", "CacheSetup_ResourceRegistryCache (Cache for saved ResourceRegistry files)", "HTTPCache", "MailHost", "RAMCache", "ResourceRegistryCache (Cache for saved ResourceRegistry files)", "acl_users", "archetype_tool", and "bulletin (Bulletin)".

Type Name	Size	Last Modified
<input type="checkbox"/> CacheSetup_OFSCache		2009-03-27 11:22
<input type="checkbox"/> CacheSetup_PageCache (Page Cache Manager)		2009-03-27 11:22
<input type="checkbox"/> CacheSetup_ResourceRegistryCache (Cache for saved ResourceRegistry files)		2009-03-27 11:22
<input type="checkbox"/> HTTPCache		2009-03-27 11:22
<input type="checkbox"/> MailHost		2009-03-25 12:08
<input type="checkbox"/> RAMCache		2009-03-25 11:49
<input type="checkbox"/> ResourceRegistryCache (Cache for saved ResourceRegistry files)		2009-03-25 11:49
<input type="checkbox"/> acl_users		2009-03-25 11:49
<input type="checkbox"/> archetype_tool		2009-03-25 11:49
<input type="checkbox"/> bulletin (Bulletin)	1 Kb	2009-06-17 10:54

What do you need to know?

Plone

Zope

Python



Start / Stop server

```
[root@brunel bin]# ./startcluster.sh
zeoserver: . daemon process started,
pid=29506
client1: . daemon process started, pid=29515
client2: . daemon process started, pid=29519
```

Installing new modules

```
[root@brunel bin]# ./bin/buildout
Getting distribution for
'plone.recipe.varnish'.
Got plone.recipe.varnish 1.0rc8.
Getting distribution for 'zc.recipe.cmmi'.
Got zc.recipe.cmmi 1.1.5.
Uninstalling unifiedinstaller.
Uninstalling zopeskel.
Uninstalling zoepypy.
Uninstalling client2.
Uninstalling client1.
Uninstalling zeoserver.
Uninstalling productdistros.
Updating zope2.
Updating fake eggs
Installing productdistros.
Installing zeoserver.
```


For all you geeks ...





webadmin@webstar:~/plone — ssh — 120x40

[webadmin@webstar plone]\$ █




```
webadmin@webstar:~/plone/Plone-3.2.2-UnifiedInstaller — ssh — 120x40
touch /home/webadmin/Plone/zeocluster/var/zeoserver/zeoserver.log
chmod 700 /home/webadmin/Plone/zeocluster/var/filestorage
chmod 700 /home/webadmin/Plone/zeocluster/var/zeoserver
chmod 700 /home/webadmin/Plone/zeocluster/var/client?
Unused options for chown: 'update-command'.
Installing unifiedinstaller.
Generated script '/home/webadmin/Plone/zeocluster/bin/plonectl'.
Installing precompile.
  precompiling python scripts in /home/webadmin/Plone/zeocluster/products
  precompiling python scripts in /home/webadmin/Plone/zeocluster/parts/productdistros

#####
##### Installation Complete #####

Plone successfully installed at /home/webadmin/Plone
See /home/webadmin/Plone/zeocluster/README.txt
for startup instructions

Use the account information below to log into the Zope Management Interface
The account has full 'Manager' privileges.

  Username: admin
  Password: DwMkUrAg

This account is created when the object database is initialized. If you
change the password later, you'll need to use the new password.

- If you need help, ask the mailing lists or #plone on irc.freenode.net.
- The live support channel also exists at http://plone.org/chat
- You can read/post to the lists via http://plone.org/forums

- Submit feedback and report errors at http://dev.plone.org/plone
(For install problems, specify component "Installer (Unified)")

[webadmin@webstar Plone-3.2.2-UnifiedInstaller]$ cd..
-bash: cd..: command not found
[webadmin@webstar Plone-3.2.2-UnifiedInstaller]$ ls
base_skeleton      helper_scripts  init_scripts  install.sh  packages  tests  version.txt
buildout_templates HISTORY.txt    install.log   Licenses   README.txt  UPGRADING.txt
[webadmin@webstar Plone-3.2.2-UnifiedInstaller]$
```

Plone

Leading open source CMS for Content Management, Document Management and Knowledge Management. Get your intranet, portal, web site or community site up and running in minutes!

Current release

[Plone 3.2.2](#)

Released Apr 09, 2009 — tested with Plone 3

Bugfix release for the Plone 3.2.x series

[More about this release...](#)



[Get Plone for Linux/BSD/Unix](#) (34MB)

Unified Installer for Linux/BSD/UNIX/Solaris (includes Python, Zope and Plone plus dependencies)



[Get Plone for Mac OS X](#) (30MB)

OS X 10.4 or 10.5, Intel or PPC



[Get Plone for Windows](#)

Windows Installer for 3.2.2

Project Description

Plone is powerful and flexible. It is ideal as an intranet and extranet server, as a document publishing system, a portal server and as a groupware tool for collaboration between separately located entities.

Plone is easy to use. The Plone Team includes usability experts who have made Plone easy and attractive for content managers to add, update, and maintain content.

Project Resources

- [Releases](#)
- [Roadmap](#)
- [Features](#)
- [Security](#)
- [Documentation](#)
- [Code repository](#)
- [Issue tracker](#)
- [Support](#)
- [Contact address](#)

Project owner: [Plone Foundation](#)

[RSS](#) [Subscribe to updates for this project](#)

Experimental Releases

[Plone 3.3 \(Release candidate 3\)](#)

Released May 28, 2009

After Plone 3.2 (which focused on packaging/installer improvements), this is a minor release that adds some new features. It does not include any major changes: all products that work with


```
webadmin@webstar:~/Plone/zeocluster/bin — ssh — 120x40

- If you need help, ask the mailing lists or #plone on irc.freenode.net.
- The live support channel also exists at http://plone.org/chat
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(For install problems, specify component "Installer (Unified)")

[webadmin@webstar Plone-3.2.2-UnifiedInstaller]$ cd..
-bash: cd..: command not found
[webadmin@webstar Plone-3.2.2-UnifiedInstaller]$ ls
base_skeleton      helper_scripts  init_scripts  install.sh  packages  tests        version.txt
buildout_templates HISTORY.txt    install.log   Licenses   README.txt UPGRADING.txt
[webadmin@webstar Plone-3.2.2-UnifiedInstaller]$ cd ..
[webadmin@webstar plone]$ ls
Plone-3.2.2-UnifiedInstaller Plone-3.2.2-UnifiedInstaller.tgz
[webadmin@webstar plone]$ cd ..
[webadmin@webstar ~]$ ls
BrunelSetup Desktop LDAP plone Plone PloneSetup
[webadmin@webstar ~]$ cd Plone
[webadmin@webstar Plone]$ ls
buildout-cache Python-2.4 zeocluster Zope-2.10.7-final-py2.4
[webadmin@webstar Plone]$ cd zeocluster/
[webadmin@webstar zeocluster]$ ls
adminPassword.txt bin buildout.cfg develop-eggs fake-eggs parts products README.txt src var versions.cfg
[webadmin@webstar zeocluster]$ cd bin
[webadmin@webstar bin]$ ls
buildout client2      paster  repozo      restartcluster.sh  startcluster.sh  zeoserver
client1  clusterstatus.sh  plonectl  restartclients.sh  shutdowncluster.sh  zeopack          zoepypy
[webadmin@webstar bin]$ ./startcluster.sh
zeoserver: . daemon process started, pid=28592
This is the first start of this instance.
Creating Data.fs and a Plone site.
We only need to do this once, but it takes some time.
Creating Plone site at /Plone in ZODB...
Installed Plone standard content
Finished adding Plone site
client1: . daemon process started, pid=28603
client2: . . daemon process started, pid=28607
[webadmin@webstar bin]$
```



Search Site Search

only in current section

You are here: Home

Welcome to Plone

by admin — last modified Jun 30, 2009 10:59 AM

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Get comfortable

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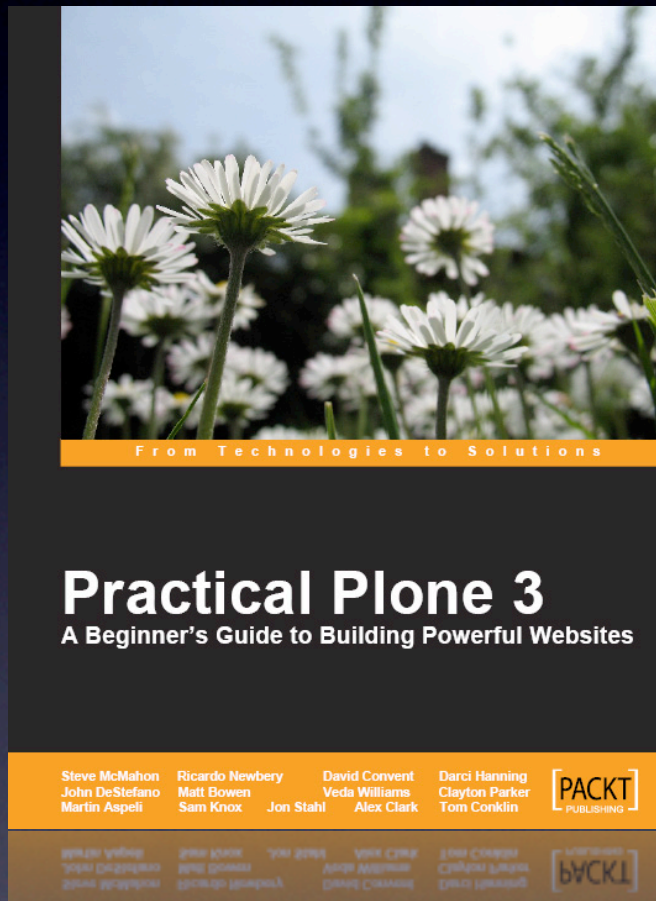
- Find out [What's new in Plone 3](#).
- Read the [documentation](#), especially the [What documentation should I read](#) and [Server setup recommendations](#).
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« June 2009 »

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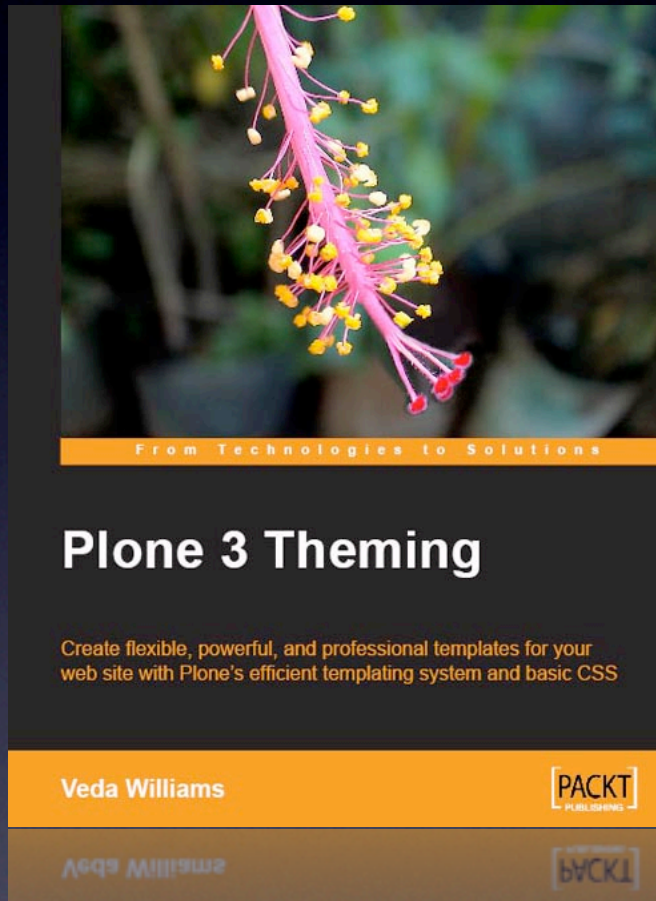
[Manage portlets](#)

Further reading



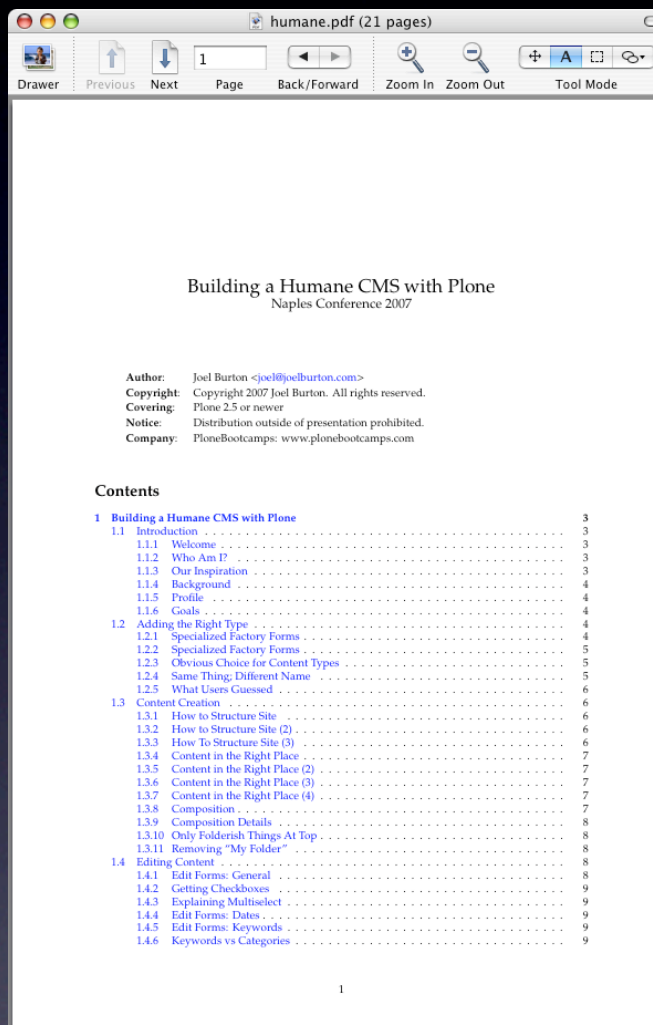
- **Practical Plone 3: A Beginner's Guide to Building Powerful Websites**
Martin Aspeli et al, February 2009

Further reading



- Plone 3 Theming
Veda Williams, July 2009
- More books at: <http://plone.org/documentation/>

Further reading



- Joel Burton - Building a Humane CMS with Plone
<http://plonebootcamps.com/resources/humane-cms/view>

Links

- Oxford Web Masters Wiki:
<https://wiki.oucs.ox.ac.uk/oxweb/cmslistings>
- Medical Sciences Division Webteam
<http://webteam.medsci.ox.ac.uk/>
- Department of Engineering Science
<http://www.eng.ox.ac.uk/Plone>
- Plone.net:
<http://plone.net/>
- Planet Plone:
<http://planet.plone.org/>
- Plone and its competition: choosing a CMS
<http://www.martinaspeli.net/articles/plone-and-its-competition>

Questions?

Contact

- John Pilbeam john.pilbeam@qeh.ox.ac.uk
- Jim Leek jim.leek@eng.ox.ac.uk

More info

- <http://plone.org/>

Thank you!

