The Dope On Zope *Getting Started With The Zope Application Server*

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What's Zope?

Zope is an open source application server written in Python that features a transactional object database, distributed control, lots of 3rd party products, a search engine, and a growing community of users and developers.

History of Zope

In November 1998, Digital Creations combined: Bobo an open source Web-object toolkit Principia a commercial Web application platform DC's venture capital firm encouraged them to open source their software and Zope was born.

Architecture

Zope has a component architecture:

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- ZServer
- Zope Core
- Object Database (ZODB)
- RDMBS integration
- Zope Products
- ZClasses

ZServer

- Supports HTTP, FTP, XML-RPC, FastCGI, and PCGI
- Plays well with others (e.g., Apache, Squid)

Note: ZServer on its own won't win any races serving static content. Proxies make a world of difference. Zope supports caching of "expensive" SQL queries and heavily dynamic content.

Zope Core

- Zope has built-in
 - Search engine
 - Flexible security layer
 - Membership
 - Dynamic Text Markup Language (DTML) e.g., <dtml-var foo>

Object Database

The Zope Object Database (ZODB)

- Thinks it's a file system
- Supports:
 - Transactions
 - Undos
 - Private versions
- Scales well with failover using ZEO

RDMBS Integration

Zope supports connections to:

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- Oracle
- Sybase
- ODBC
- Solid
- MySQL
- PostgreSQL

Zope Plugins

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- ZClasses
 - New object type created through the Web
 - Requires no programming

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Versions are like magic!

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It ain't easy.

Acknowledgements

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$$I(z) = \sin(\frac{\pi}{2}z^2) \sum_{n=0}^{\infty} \frac{(-1)^n \pi^{2n}}{1 \cdot 3 \cdots (4n+1)} z^{4n+1}$$