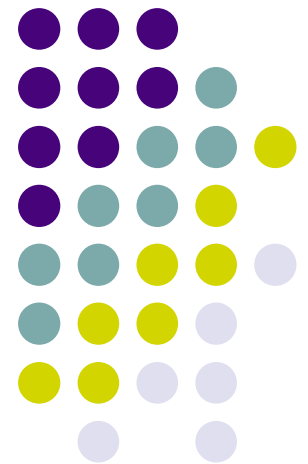
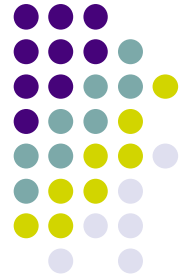


APACHE PROJECTS OVERVIEW

Daniel Lopez Ridruejo





About me

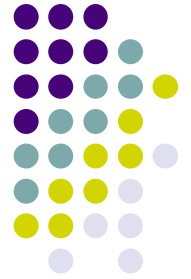
ASF member and long time Apache user

Interested in usability and lowering the learning curve for Apache

Comanche GUI configuration tool

“Teach Yourself Apache” book

What this presentation is about



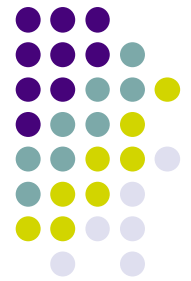
- Learn about the architecture and capabilities of the Apache server
- Learn about the different Apache Software Foundation projects
- Where to find more information online and related conference sessions



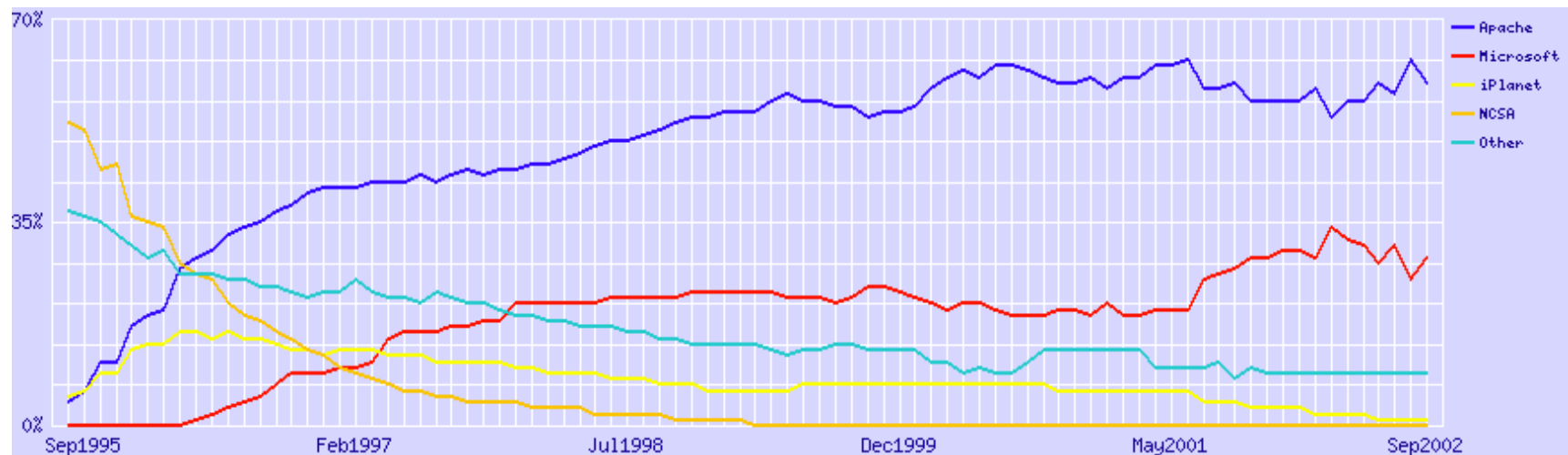
Presentation Structure

- Apache Server
 - Benefits
 - Architecture
 - Modules
- Apache Software Foundation Projects
 - Applications and Frameworks
 - Presentation and Data Manipulation
 - Development support

Apache Server



Number One Server on the Internet !





Apache Server Benefits

- Open Source
- Stability and Scalability
- Security
- Flexibility/Extensible
- Performance
- Multiplatform
- Standards Compliance



Apache Versions

- Apache 1.3
 - Process based web server
 - Modular architecture
- Apache 2.0
 - Process and thread-based
 - Modular architecture, filters
 - Multiple protocols
 - Portable



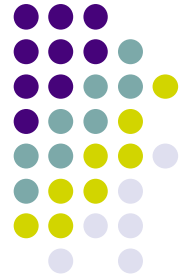
Related talks

- TU03 Apache 2.0 Filters
- TU05 Happy Trails: Migrating to Apache 2.0
- WE13 Advanced Topics in Module Design: Threadsafety and Portability
- WE17 Apache 2.0 on Windows
- TH15 Bucket Brigades: Data management for Apache 2.0



Apache Security

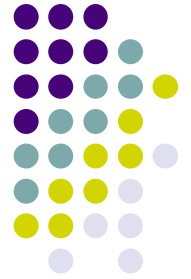
- Authentication
 - Files, databases, LDAP
- Access Control
- SSL/TLS with mod_ssl
 - Apache 1.3 : EAPI patches
 - Apache 2.0: Filter



Related Talks

- TU04 Apache Security Secrets Revealed
- WE20 Securing Web Access with a Private Certificate Authority
- TH04 Web Applications and Single Sign-on
- TH13 Apache and LDAP
- TH16 Setting up a secure server with Apache and mod_ssl

Performance and Scalability



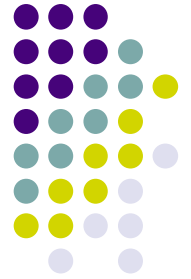
- Memory mapping files
- Caching
- Bandwidth management
- Load Balancing
- Compression



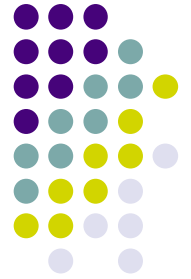
Related Talks

- TU13 Scalable Internet Architectures
- WE19 250M pageviews a month: a case study of a high traffic site
- TH19 Performance-tuning the Apache Web Server

Development Platform Integration



- CGI integration
- Perl : mod_perl
- PHP
- Python : mod_python
- Tcl : mod_rivet, mod_tcl...
- Java: Tomcat, Weblogic...
- Microsoft Technologies: .NET, ASP



Related Talks

- TU10 The Top 7 Mistakes in PHP programming
- TU11 FastCGI -- The Forgotten Treasure
- TU15 Object-Oriented mod_perl
- WE03 mod_dtcl - fast and light web scripting
- WE04 Integrating Apache with Microsoft's .NET

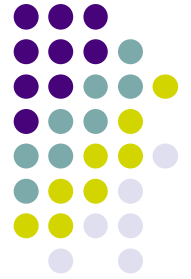


More Related Talks

- WE09 High Performance PHP
- WE11 mod_perl 2.0
- WE15 Embperl - Building dynamic Websites with Perl
- TH03 PHP 5 Infrastructure Preview: Zend Engine 2

Management

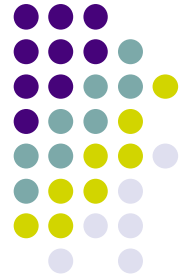
- Apache Toolbox
- User Interfaces
 - Comanche
 - Webmin
- SNMP





Misc. Features

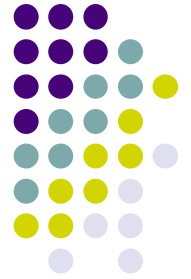
- Multiple Protocol Support
 - POP3
 - FTP
- Virtual Host Support
- Forward and Reverse Proxy Support
- Publishing
 - DAV
 - FrontPage



Related Talks

- TH01 WebDAV and Apache
- TH05 Catacomb: A database backed WebDAV and DASL repository
- TU09 New mod_proxy features and uses for httpd 2

Apache Software Foundation



- Developer Community
- Foundation provides legal, infrastructure support
- Open Source Development
- Standards-Based
- High-Quality projects

Applications And Frameworks



SERVERS

- Tomcat: Servlet, JSPs
- James: Mail
- Lucene: Search engine
- Jetspeed: Portal

FRAMEWORKS

- Turbine
- Avalon



Related Talks

- WE16 Tomcat Performance Tuning and Troubleshooting
- TH02 Building Web Applications Using the Turbine Suite of Tools

Presentation and Template Systems



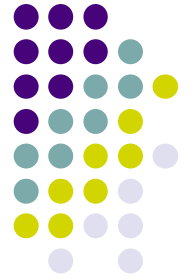
- Cocoon: Xml Publishing Framework
- Velocity: Java-based template engine
- AxKit: Xml-based application server for mod_perl
- Xalan: XSLT for Xml transportation
- FOP: Transformation to PDF



Related Talks

- TU02 Managing Content using Apache Cocoon
- TH10 Generating beautiful PDF files with FOP
- TH21 XML Publishing With AxKit

Parsers and Document Access



- Xerces: Xml parser. Java, C, Perl
- Batik: SVG vector graphics
- POI: Manipulating Excel and Word files in Java

Related Talks



- WE08 Xerces2: The Sequel With No Equal
- WE12 Everything you always wanted to know about XML parsing



Interoperability

- SOAP
 - Apache-SOAP
 - Axis
 - WSIF
- Xml-RPC
- Xml Signatures



Related Talks

- TU16 Advanced Web Services Using Axis
- WE10 Building a Web service from SOAP to Nuts
- TH22 Building an open source Service Oriented Architecture with WSIF



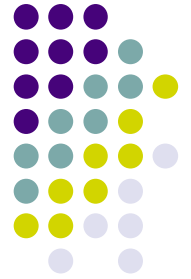
Development

- APR: Portability library
- Ant: Build tool
- Byte Code Library
- ORO and Regexp: regular expression
- Struts: MVC for web applications
- Taglibs: custom tags
- Database: OJB, Xindice



Related talks

- TU14 Ant - The Only Bug You Want Near Your Software
- WE06 Building Web Applications with the Struts Framework



Development/Commons

- Bean Utils: Bean manipulation
- CLI: Command line options
- Digester: Xml configuration files
- Discovery: Pluggable interface
- Modeler: JMX development
- DBCP: Database connection pool



Testing

- httpd-test: Apache test suite
- Cactus: Container based http testing
- JMeter: Testing, load
- Lakta: End-to-end functional test
- Watchdog: Compliance test for servlet



Additional Information

- Apache website <http://www.apache.org>

Look for the Apache documentation project

- ApacheWeek.com, ApacheToday.com
- Apache modules: modules.apache.org, Freshmeat, SourceForge
- User mailing lists, Usenet



Questions?

- This presentation will be in ApacheWorld.org
- You can reach me at daniel@rawbyte.com