



WebSphere Application Development

- WebSphere software platform
- WebSphere Partners
- Vision and Strategy
- Offering Details
 - Studio
 - VisualAge for Java
 - Studio Workbench







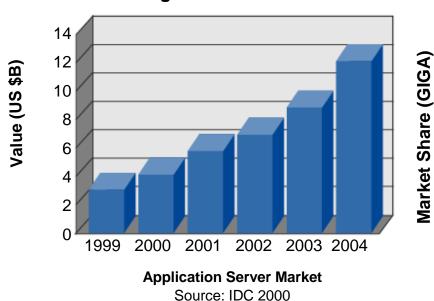


Market Manager, WebSphere Application Development rrea@us.ibm.com

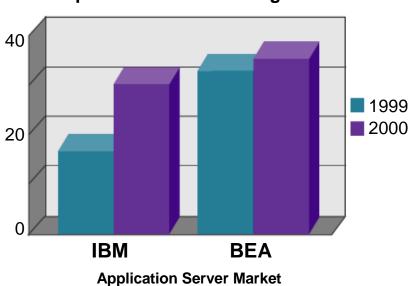


WebSphere Market Success

Accelerating e-business Platform Market



WebSphere: Fastest Growing Platform



Application Server Market Source: GIGA Apr 2001

35,000 customers worldwide

9,000+ ISV applications

7,000 certified professionals

Dynamic e-business

7intelligent transactions

Dynamic e-business

7integration

7infrastructure

Value Networks

Internal Integration

e-business Transactions

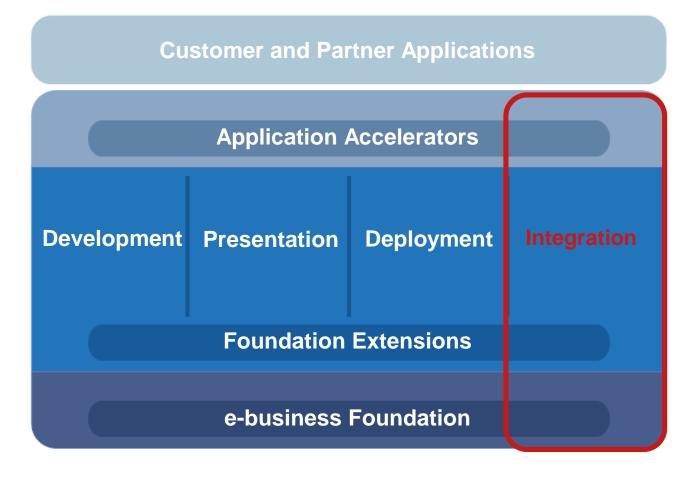
Web Publishing

Source : The McKenna Group, IBM Market Research





Platform for Dynamic e-business



- Incorporating integration and BPM in a transactional context
- Enhancing foundation with version 4.0
- Delivering prepackaged business infrastructure
- Widest support for open standards -- leader in web services



WebSphere Platform

Realize greatest business value versus competition

Over twice the performance throughput per \$ invested

Deliver the technology required for dynamic e-business

- First with Web services technologies SOAP, WSDL, UDDI
- First with J2EE added value optimized for dynamic web transactions

Easily start with an e-business platform adaptive to change via superior configuration flexibility, extensibility and scalability

Leverage your existing assets to build robust e-business infrastructures

- Broadest range of complementary, integrated middleware
- Over 9,000 ISV applications available (500% YTY growth)

Establish the most productive developer environment through a full range of integrated and extensible AD tools

- Greatest number of certified developers
- 7,000 professionals worldwide across industries, disciplines

Delivering Dynamic e-business

Ability to Execute with the WebSphere Software Platform

- 50% Code reuse
- Application running in 90 days
- Financial benefit of \$10.3M
- Reduced development cost 50%
- Reduced cycle time 30 40%
- 7,000 certified professionals

Ability to Execute with point product technology

Software Value for PartnerWorld

- Each 1\$ of IBM software, customers spend:
 - > \$19.70 on services, hardware and other software
- PartnerWorld for Software benefits
 - ► Run your business includes:
 - WebSphere Studio
 - VisualAge for Java
 - Solution/Product Information Web Site updates:
 - WebSphere Studio Homepage Builder V6
 - WebSphere Studio Professional Edition V4
 - WebSphere Studio Advanced Edition V4
 - VisualAge for Java V4
 - WebSphere Studio Workbench

WebSphere Deal Anatomy

Small

- ► Application examples: Web enabling applications; B2C or basic B2B; Simple employee intranet: B2E
- ► SW Revenue: \$20K \$60K
- ► Services Revenue: \$40K \$120K @ 2:1

Medium

- ► Application examples: Simple e-commerce site: B2C, B2B; Simple business process automation; Employee benefit self-service B2E
- ► SW Revenue: \$60K \$140K
- ► Services Revenue: \$240K \$560K @ 4:1

Large

- ► Application examples: Enterprise-wide business processes; Large-scale B2B or B2C applications
- ► SW Revenue: \$1.1M
- Services Revenue: \$11M @ 10:1

IBM WebSphere Software Platform Typical Partner Profile

- Java skills
- Certifications for WebSphere
- Vertical application (Optional)
- IBM HW Platform knowledge (if Channel appropriate)
- Non IBM HW Platform knowledge (if Channel appropriate)
 - SUN Solaris, HP, and/or Compaq
- Complementary Database Software
 - ►IBM DB2 (Lead with)
 - Other "Best of Breed" Non IBM Database offerings (customer preference)



Application Development Vision

- Deliver, grow, and differentiate e-business
- Help teams design, develop, and deploy dynamic e-business applications
- Provide the ultimate workbench to "manage" the work

WebSphere

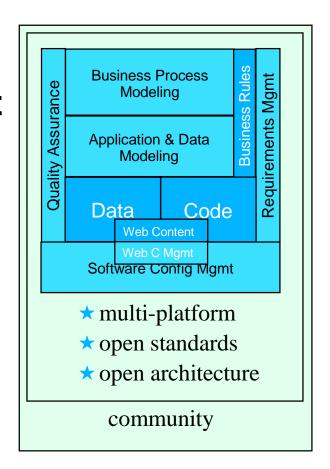
The Fastest Way to e-business





Application Development Strategy

- A comprehensive development environment
- A programming model
- A developer community



WebSphere Application Development - Role Based



Full life cycle support for role based development



WebSphere Homepage Builder



Page Builder

Page Layout & Content Rich Media HTML/Java Scripting WebSphere Studio



Site Developer

Dynamic Web Pages
Database Access
Web Services Dev.
JSPs/Servlets

for Java

VisualAge

Application Developer

Business logic
J2EE / XML
Web Services
JCX / Connectors
Complete IDE

VisualAge Enterprise Suite



Enterprise Application Developer

Transaction Services Application Integration

e-RAD

Versata Business
Automation

VisualAge Enterprise Suite



i-Series / z-Series

VisualAge Enterprise Suite



Middleware Specific: Commerce, B2B, MQ, etc.

Life Cycle: Reqmts, Modeling, Test, Content Mgt/Version control

WebSphere Application Development V4.0 Packaging

Configuration Options

- √ VisualAge for Java Professional Edition
- ✓ VisualAge for Java Enterprise Edition
- ✓ WebSphere Studio Homepage Builder
- ✓ WebSphere Studio Professional Edition
 - includes VisualAge for Java PE
- ✓ WebSphere Studio Advanced Edition
 - includes VisualAge for Java PE

Platforms

- ✓ Development:
 - Studio Windows 98, Me, NT, 2000
 - → VA Java Windows 98, NT, 2000
- ✓ Deployment:
 - → All WebSphere Server Platforms

Dates

√ eGA : 7/13/01

✓ GA : 8/3/01

✓ Homepage Builder 6/29/01

Pricing

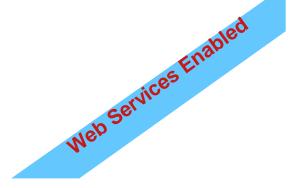
✓ Visu	ualAg	e for	Jav	a Pro		\$ 149

- √ VisualAge for Java Enterprise: \$ 2999
- √ WebSphere Studio Homepage Builder
- ✓ WebSphere Studio Pro:
- ✓ WebSphere Studio Advanced:

99

599

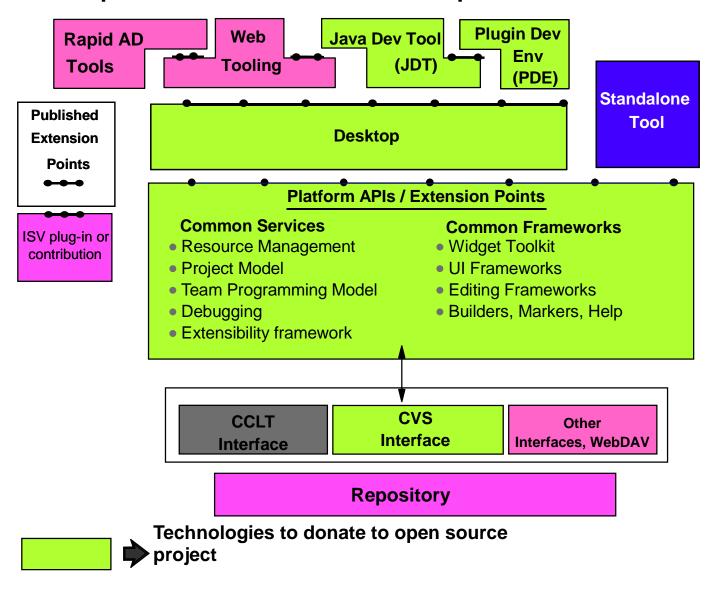
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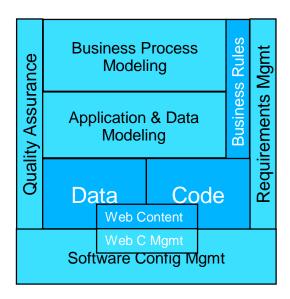




WebSphere Studio Workbench - an open tool development kit



Workbench Key ISV Partners



Rules based development

Versata

Connectors

Extricity

Development tools

- Instantiations
- Macromedia

Business Process Modeling

Holosofx

Requirement Management

RationalSuite Analyst Studio

Application and Data Modeling

RationalSuite Developer Studio

Web Content Management

Interwoven

Software Configuration Management

- Rational ClearCase / ClearQuest
- Serena ChangeMan
- Merant PVCS

Quality Assurance / Performance

- RationalSuite Test Studio
- Sitraka

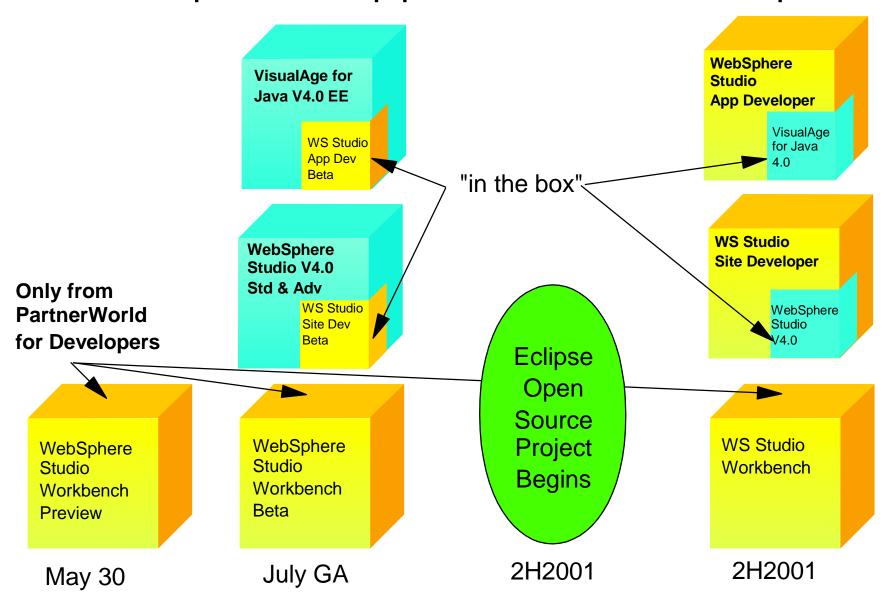
Business Process Integration

CommerceQuest





WebSphere Application Development



WebSphere Application Development Roadmap

- **★ WebSphere Studio family launch**
- ★ Migration support from v4.0
- **★ Partner offering integration**
- **★ New developer community support**

★ Next Generation AD Vision

... a quantum leap in AD automation

3Q/4Q

Next Gen App Dev!

- **★ Open Workbench**
- **★ Open Source (Windows & Linux)**
- ★ Partnerships to address full development life cycle
- **★WAS 4.0 Support**
- **★ Java Connectors**
- **★ New J2EE Support**
- **★ Web Services**

2Q

WebSphere Studio Family

Comprehensive, Open Development Environment

VA Java & WebSphere Studio v4.0



Market Differentiators

- Only IBM offers a comprehensive software platform with our award winning application development tools (VisualAge, WebSphere Studio)
- Only IBM uniquely enables customers and partners to efficiently develop, deploy, maintain, and manage J2EE based e-business applications
- Only IBM has effectively created and maintained a developer community focused on J2EE and Web Services using alphaWorks and developerWorks

WebSphere Studio

For Building Today's Dynamic e-Business

WebSphere

The Fastest Way to e-business



WebSphere Studio

- What is WebSphere Studio?
- Understanding Key Features
- WebSphere Studio V4.0-What's new





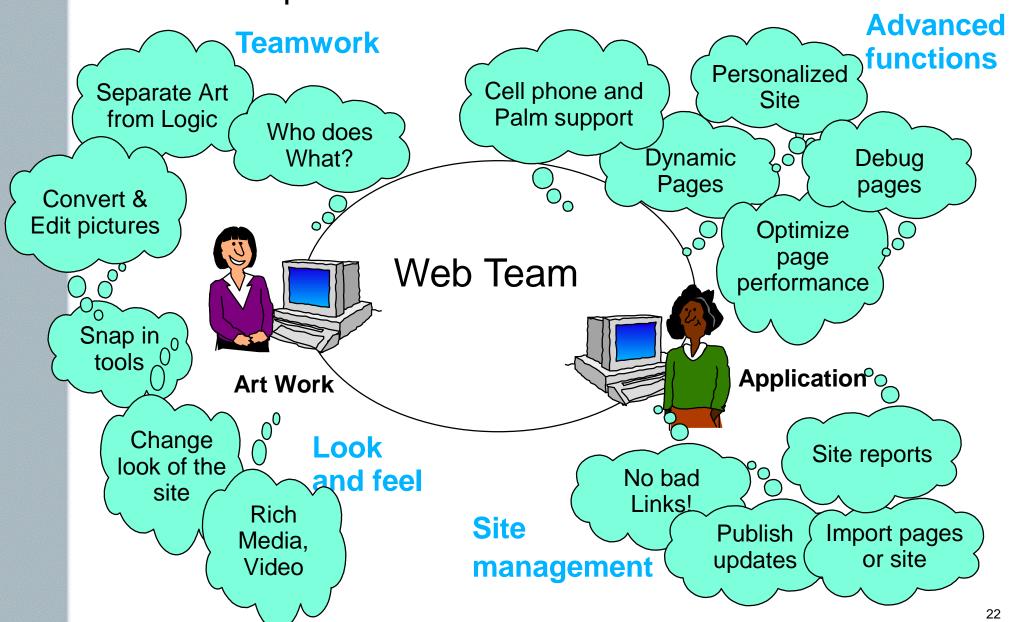


What is WebSphere Studio?

From simple to advanced Web Development

- ► Complete and easy-to-use
- Visual Page and Site Design
- Advanced tools for web developers
- Improves developer productivity
- Integrates with IBM and third party tools
- Improves testing, deployment and management of web applications
- Comes in three editions:
 - Homepage Builder Single user, HTML, Clients-side applications
 - Professional Edition Small teams, JSP, Server-side applications
 - Advanced Edition Large teams, JSP, Personalization

Studio Eliminates Common Web Development Constraints



Homepage Builder V6.0: Entry web authoring tool

- 2000 Templates
- 5000 Samples
- Video editor
- Logos, Buttons,
 Photo frames, Line Cascading Style Sheet drawings
- Animation
- Image tools
- Cascading Style Sheets
- Dynamic HTML
- Site Management
 - ► Accessibility



WebVideo Studio for videos

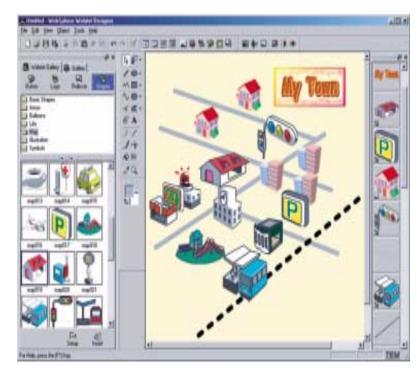
- Easy video editing by timeline
- Capture from digital video and digital camera
- Clip video frame or compose from many videos
- Add of text logos, images, photos, and sounds
- Transition effects
- Simple insertion into page
- Multiple formats



WebVideo Studio

Image tools for advanced pages

- Use WebArt Designer, AnimatedGif Designer to create:
 - logos, buttons, and vector graphics
 - Edit images
 - Crop, Rotate, Flip
 - Brightness, Contrast
 - Color tone
 - Animations, Rollovers
- Use HotMedia to create:
 - Panoramic views
 - Synchronized audio, video
 - Without using plugins!



Web Art Designer



Pages for cell phones

- Generate HTML tags for specific browsers
 - TV mode (640x480), Mobile mode (160x160), 1/4 VGA, VGA
- i-mode support
 - Cell phone format for Japan, spreading to Europe and US
 - ▶ i-Photo Builder
 - converts photos and images to i-mode color or black/white formats



Create pages for i-mode

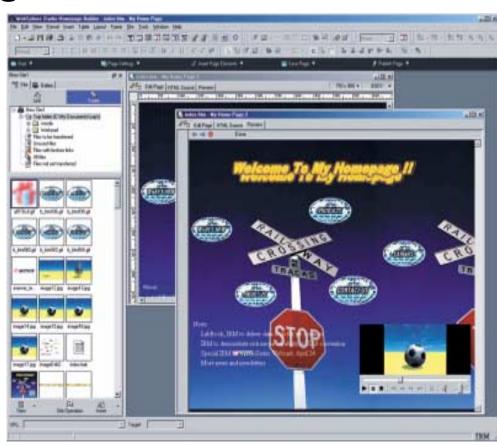




Start with simple pages.....

- Easy to get started
- Instantly update sites
- Advanced tools

Departmental publishing

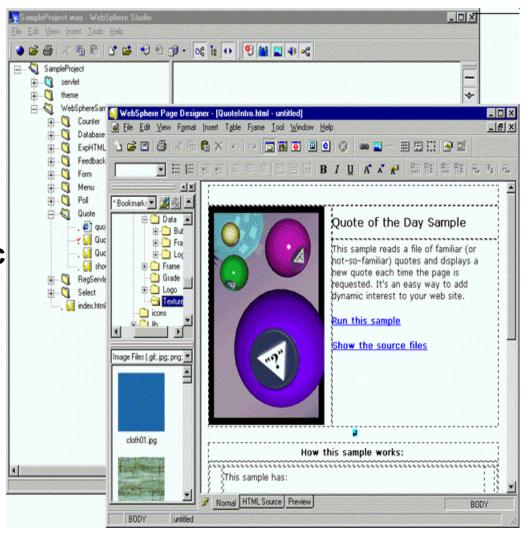




.....grow to dynamic applications

- WebSphere Studio
- JavaScript
 - Client-side dynamic
 - All Studio editions
- Java
 - Server-side dynamic
 - Professional Edition
 - Advanced Edition

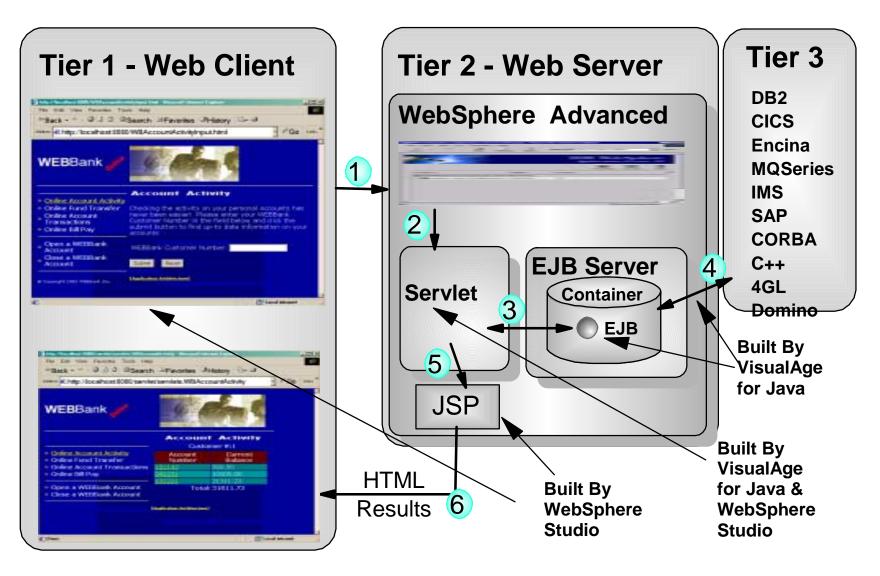
Corporate Applications





WebSphere The Fastest Way to e-business

...grow with WebSphere Studio



Server-side Dynamic Applications

Homepage Builder Benefits

Save time

- ► Small learning curve no HTML or programming skills
 - Tutorial and help screens enable rapid competence
- ► Create sites in minutes with templates
- ► Everything needed to build and publish your site
- Communicate more effectively
 - Animation helps highlight important information
 - ► Videos to show the complete event
 - ► Easy site management allows frequent updates
- Simple growth to WebSphere dynamic applications
- Appropriate for beginners to experts





Homepage Builder Comparison

Feature	WebSphere Homepage Builder	Microsoft FrontPage	Macromedia Dreamweaver
Page Authoring	X	X	X
Tutorial and Help	X	No tutorial	No tutorial
Site/Page Template	X	X	X
WebArt Designer	Х		
Web Animation	Х		
Site Management	Х	Х	X
Site Check	x	No accessibility	No accessibility
Templates/Samples	2000/3000	60 themes	
Linux Support	X		
WebSphere Platform	X		





The press agree:

- ZDNet 5 Star Award: "enough advanced functions to impress experienced Webmasters, but plenty of multimedia tutorials and a detailed user's guide to get newbies up and running, this Website authoring suite aims to please -- and scores a bulls-eye."
- 32bitsonline.com "a great value for its US\$69 sticker price. Especially for beginners, you get a product that will allow you do just about everything you could want to do."

Studio Professional and Advanced

- Visual Page Designer adds JSP support
 - ► Technology from Homepage Builder V5
- Rich multistage deployment
- Workbench to edit & manage web content
 - ► Import/export from VisualAge for Java
 - Register your favorite tools
 - Import and Archive sites
- Wizards for non-programmers to quickly build new WebSphere applications
 - ► Including Wireless, Voice XML and now Web services

Everything in one box!

Simplify dynamic page development

- Script editor to quickly add simple scripts
 - ► JSP (Java) for server side
 - ► JavaScript (+ others) for client side
- Drag/Drop server-side logic on a JSP page
 - Separation of logic (JavaBeans) and look (mark up)



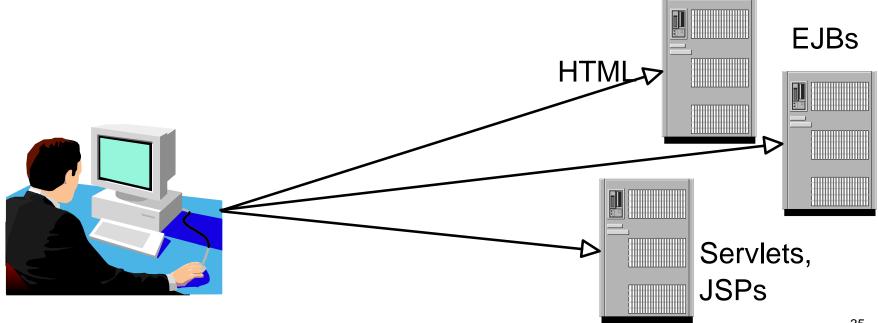
- ► Simplifies complex interactions, like personalizing pages
- Creates a "control" Servlet
- Multiple pages based on servlet results
 - For example, personalized pages or error pages
- Supports pervasive devices like phones and PDAs





Publishing Improves Productivity

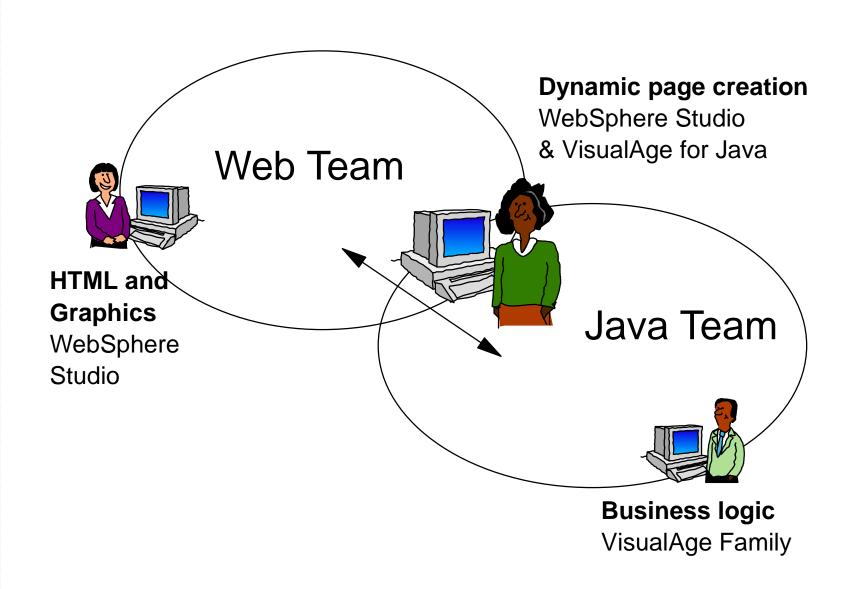
- Links are managed by Studio
 - Mappings done at publish time
 - ► To reflect host names, physical paths
- Enables multi-host, multi-stage publishing
 - Allows test, staging, production, or customized







Extend the Web team to Java programmers



Define dynamic pages once!

- Multiple pages created with different markup
- Page Designer extended to support Compact HTML
- Database Wizard supports:
 - ► HTML Web Browsers
 - WML Cell phones and PDAs
 - ► Compact HTML Cell phones and PDAs
 - ► Voice XML emerging standard for Voice









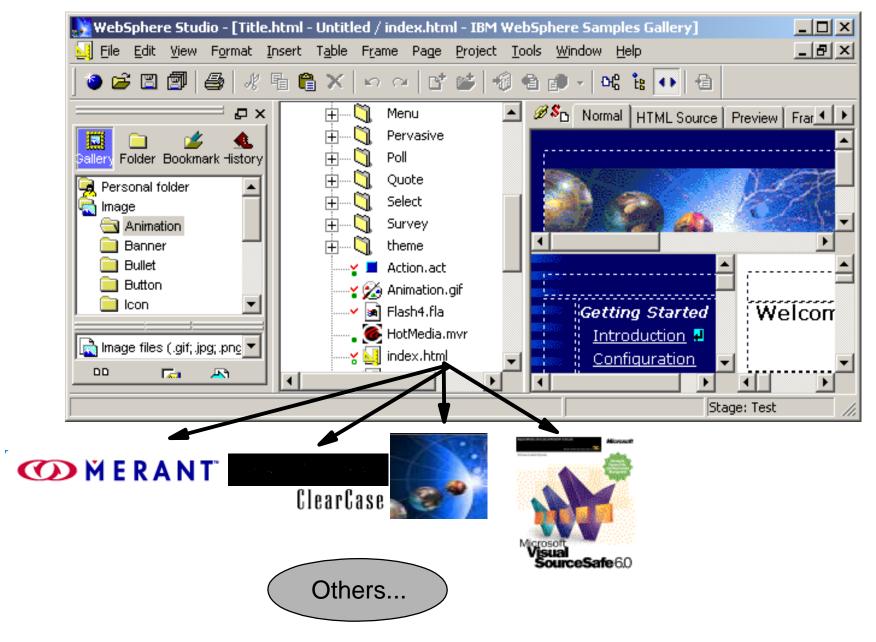
Advanced Edition for large teams

- Advanced Edition adds 4 key functions
 - Works with version control systems
 - Personalization tools
 - ► Page Detailer for page performance analysis
 - Distributed Debugger for debugging JSP pages



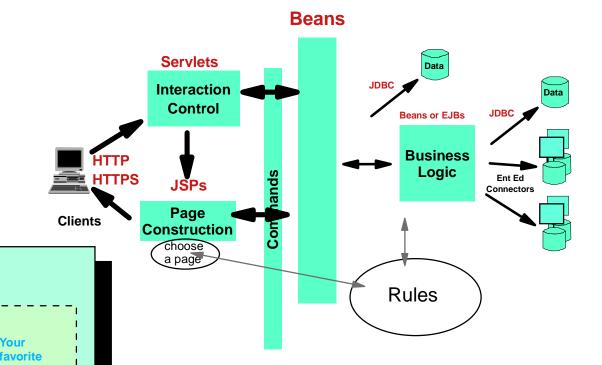


SCM API's to add version control



WebSphere HTTP Application Profile

- ✓ WebSphere HTTP Application Profile isolates business logic and presentation.
- JSPs assemble the page for display.



Personalized Page

Links to things of interest to you:

New financing options announced

Applications I am authorized to use:

- Enter orders
- Credit status

Company policy manuals relating to my job:

- Vacation
- Health plan

- ✓ JSPs continue to assemble the page, but will be able to make use of WebSphere's enhanced user profile, new content model and Rules to customize the results.
- ✓ In addition, business rules can be shared beyond just personalization.



Optimize pages

- Page Detailer Reports Web Page Performance so Page Designers and Web Site Management Can Optimize Customer Browsing Experience
 - **►** End-User Response Time Experience
 - Understand Component Retrieval Schedule
 - **▶** Review Component Affects on Response Time
 - **▶** Compare Different Browser Performance
 - Investigate Bottlenecks in Content Delivery

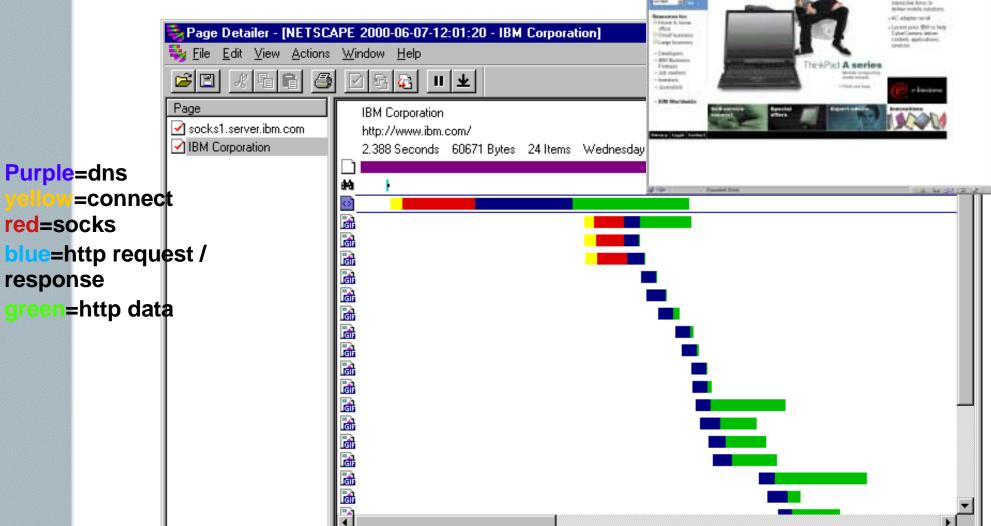


WebSphere The Fastest Way to e-business

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Notes

Details |

Chart

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Team recognition

- Unmatched team support; see what the press say:
 - "Developers will find the combination of WebSphere Studio and WebSphere Advanced Edition to be compelling," Java Developers Journal
 - "A very powerful development environment," InternetWeek
 - "Deploying code from within the Studio environment is surprisingly easy," Web Techniques
 - ► "IBM has a winner," News/400
 - Productivity award, Design and Management Tools Category, Software Development Magazine



Studio V4.0 Enhancements

- New Web Services Wizards
 - allows developers to easily develop, describe and publish web services.
- Support for Java Server Pages (JSP) 1.1 and Servlet 2.2
- Includes WebSphere Everyplace Suite Software Development Kit
 - Location Based Service Beans (LBS), Push API, WAP emulator
- Studio V4.0 supports Portal Server 3.5
 - create personalized web experiences by adding JSP and HyperText Markup Language (HTML) fragments to your projects through Studio's Page Designer





WebSphere Studio V4.0 Summary

Feature	WebSphere Studio V3.5	Microsoft Visual Interdev	CF Studio V4.5	Macromedi a UltraDev V1.0
Dynamic Page Authoring	Х	Х	Х	Х
Script Editor	Х	X	X	Х
Import & Archive Site	Х			
Servlet Wizard	X			
Database Wizard	X	X		X
Pervasive Support	X			
Personalization	X	X		
Page Detailer	X			
Integrate other tools	X	X		X
VA Java integration	X			
Publishing	X	X	X	X





WebSphere Studio Benefits

- Reduces effort/cost to deliver and grow dynamic web applications for the WebSphere Platform
- Reduces effort to deploy a complete tools solution for dynamic web application development
- Investments in tools and skills is maintained through integration of existing tools with WebSphere Studio
- Expansion of capability though WebSphere and VisualAge family to grow and differentiate

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