

Web and Internet Application Development Tools

Web Week '96

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Abstract

Web Week '96 was a joint 4 day technical conference organized by AT&T and Lucent Technologies following the spin-off of Lucent. This document reflects the content that drove a Birds-of-a-Feather session on development tools for web development. The discussion covered the then current development tools available at the time. In this early period of web development many tools were just emerging and teams were not sure which ones might last or which ones to use for a given purpose. The research represented here led to the creation of technical standards at the time for use by application development teams within AT&T. Looking back today this list of over 250 tools and languages provides a historical reference regarding the available development technologies during the onset of the World Wide Web. Additionally, this document still provides a useful taxonomy of development tools for software applications and web development. Interestingly some tools are still in use today almost 2 decades later, however, the percentage of survivors is very small and generally limited to the tools that were leading at the time.

Tool Reference List

Implementation

Languages: Internet Capable (Recommended)

PRODUCT	VENDOR	NOTES
С	N/A	
C++	N/A	
HTML	N/A	
Java	Sun	
JavaScript	Netscape	
Perl	N/A	

Nouveau Web Tools

PRODUCT	VENDOR	NOTES
FormulaOne	Visual Component	OCX based
InterAp	California Software	strong email only
Manage!IT	Imperative Internet Solutions	negative eval resutls
NetObjects	Fusion	price, no HTML edit
OpenWeb	Open Software	suite lock-in
Speedware	N/A	Dev Framework
VirtuFlex	Internet Integration Tech	propt. lang
Visual Internet Toolkit	Distinct	OCX based
WebC	Maximum Information	3-Tier, compiler issues
WebElement SDK	NeuronData	IE overlap
WebMate Foundation	WebMate Technologies	propt. database

Web Enabled C/S Tools

PRODUCT	VENDOR	NOTES
Composer3/WebCenter	TI	info n/a
Dephi C/S Suite	Borland Interntational	Pascal, vedor stability
Dynasty Development	Dynasty Technology	eval problems
Environment		
Forte Web SDK	Forte	3-Tier, eval problems
Internet Builder	Borland	not shipping
JAM WEB Toolkit	JYACC	grand-fathered
NetImpact Studio	Powersoft/Sybase	not shipping
Openscape Pro	Object Power	ActiveX Control Pad dup

Uniface Web Enabler	Compuware	4GL issues
Visual Basic	Microsoft	R5 not shipping
Visual Magic	Dynamics Research	Object modeling only
VisualWave	ParcPlace-Digitalk	smalltalk

Database Integration

PRODUCT	VENDOR	NOTES
ColdFusion	Allaire Corp	eval underway
dbWeb	Microsoft	effective, easy to use but limited (McGee)
HahtSite	HAHT Software	eval underway
HyperStar	VMark Software	
Jasmine	Computer Associates	
JDBC Libraries	Intersolv	immature
Mambo	Open Environment	
NetDynamics	NetDynamics	under eval (good)
ObjStore DBconnect	Object Design	
ODBC Engine	Jagg Systems	
ODBC SDK	Visgenic	
Quest	Level 5	UNIX based
Sapphire Web	Bluestone	3-Tier, under eval (good)
Tango	EveryWare Development	I-RAD
WebGalaxy Info Ed.	Allen Systems Group	not extensible (ziff)
WebObjects Enterprise	NeXT Software	Objective C but powerful

Java Development

	NOTES
1etrowerks	MAC
Corel	
GI .	SGI only
Soft As It Gets P/L	
ardigm Exchange	Class browser
laddin Software Eng	
imtech	Java generation
Bulletproof	
3M	
SunSoft	slow, complex, immature
DB Systems	
	orel GI oft As It Gets P/L ardigm Exchange laddin Software Eng imtech ulletproof BM unSoft

JFactory	RogueWave	RAD gui development
Latte'/Interbase	Borland	Futureware
Mojo Visual Java	Penumbra Software	
OEW for Java	Innovative Software	
Parts for Java	ParcPlace	IDE
Roaster	Natural Intelligence	MAC
Supercede	Asymetrix	
Symantec Cafe	Symantec	excellent eval
TeamDeveloper	Centura (formerly Gupta)	
Visual/J++	Microsoft	excellent eval
WebForce	Silicon Graphics	SGI only
WebGalaxy	Web Rapid App Dev	not extensible (ziff)

Web-to-Legacy Access

PRODUCT	VENDOR	NOTES
Amazon	Intelligent Environments	Legacy access
Autobahn	Speedware	I-RAD, prpt lang
EDA	Information Builders	Legacy access
Enterprise Access: Web Edition	Apertus Technologies	
MozNet	Mozart Systems	MVS Frontware
Pilot Internet Publisher	Pilot	DSS access
Star:View	Sterling Software	MVS Frontware (poor)

Utilities: Reporting

PRODUCT	VENDOR	NOTES
dbKona	WebLogic	
Krakatoa	N/A	non-SQL reporting
WebSequel	Infospace	Java based Q&R
WebXpresso	DataViews	3D graphical data
		visualization

Testing

Web Testing

PRODUCT	VENDOR	NOTES
Final Exam Internet Test	Platinum	
HTMLCheck	freeware	
MOMspider	free	
MOMSpider	freeware	link integrity
PurePerformix/Web	Pure	Load Testing
QA Partners	Segue	eval failed
SiteCheck	Pacific Coast Software	
STW/Web	Software Research	
Test Web	Eastern Systems	
Validater	WebTech	
W3Objects		Referential integrity for Web links
Weblint	free	
WebTest	Mecury	

Documentation & Content Creation

Web Authoring

PRODUCT	VENDOR	NOTES
AOLPRESS	AOL	(Formerly Navipress?)
Backstage Designer Plus	Macromedia	various limits
CorelWeb.Designer	Corel	suite
DeltaPoint QuickSite	DeltaPoint	platform support
Frontpage	Microsoft (from Vermeer)	eval excellent
GNNpress	GNN Hosting Service	GNN server based
Hot Dog Pro	Sausage Software	
HotDog32	Anawave Software	eval underway
HoTMetal Pro	SoftQuad	eval undeway
HTML AssistPro	Brooklyn North	feature poor
HTMLed Pro 32	W3 Internet Services	feature poor
InContext Spider	InContext	ease of use
Internet Assistant	Microsoft	eval refresh
Netscape Navigator Gold	Netscape	eval poor
PageMill	Adobe Systems	platform support
Spider	InContext	
WebAuthor	Quarterdeck	poor eval
Webber	Cerebral Systems Development	

WebEdit	NesBitt	poor eval
WebEdit Professional	SmartDesk	
WebOffice	Bluesky	price
WebWriter	N/A	O/S 2 only

Document Conversion

PRODUCT	VENDOR	NOTES
Corel Web.Transit	Corel	
Cyperleaf	Interleaf	
HTMLTransit	InfoAccess	leader
KEYview		
PointPlus Maker	N/A	
Spider	InContext	
Web Presentation	N/A	
Service		
Web Publisher Pro	Ski Soft	

Document Management

PRODUCT	VENDOR	NOTES
@mezzanine	Saros Corp	
Basis Intranet Solution	Information Dimensions	
CyberDOCS	PC DOCS Inc	
iManage Internet	NetRight Technologies	
Intellecte/Business Web	Interleaf	
Licelink Intranet Suite	OpenText Corp	
NovaWeb	NovaSoft Systems	
Optix	Blueridge Technologies	
RightSite	Documentum, Inc	

Release & Support

Web Site Utilities

PRODUCT	VENDOR	NOTES
Alchemy	Next Wave Software	
LiveWire Pro	Netscape	
Navisoft	N/A	
SiteMan 3	GreyScale Sysetms	Web Site Mgmt
WebAnalyzer	InContext	Web Site Mgmt
WebAnchor	Iconovex	Web Index

WebMapper	NetCarta	Web Util
WebMate/Foundation	WebMate Tech	Web site management
		via dbase
WorldGroup	Galacticomm	
Xpire Plus	Bungalow Systems	Web Site Mgmt

Graphics Development

PRODUCT	VENDOR	NOTES
ABC Quicksilver	Micrografx	
Photoshop	Adobe Systems	
Alchemey	Next Wave Software	
ASAP WebShow	SPC	
CorelWEB Gallery	Corel	Web art content
Director	Macromedia	
Egor	Sausage Software	GIF Animation
Fractal Design Painter	Fractal Design Corp	Painter
Freehand Grph Studio	Macromedia	
GIF Construction Kit	Alchemy Mindworks	
Illustrator	Adobe	
Imagegear	Accusoft	High-end imaging tools
ImageMan	Data Techniques	
Liquid Motion	DimensionX	
PaintShop	JASC	Recommended by BMD
PhotoShop	Adobe	Recommended by pros
Picture Publisher	MicroGrafx	Cheap but usable
		(Murphy)
Shockwave	Macromedia	
WebForms	Q&D Software Development	
WebSuite Designer Ed.	DigitalStyle Corp	Web art content
Xres	Macromedia	not recommended
		(Murphy)

OTHER INTERNET TOOLS

Analysis & Design

Information Representation

PRODUCT	VENDOR	NOTES
ABC FlowCharter	Micrograpfx	
Graph Layout Toolkit	Tom Sawyer Software www.tomsawyer.com	Relationship visualization
QuarkExpress		Charting

Release & Support

Web Site Utilities

PRODUCT	VENDOR	NOTES
Alchemy	Next Wave Software	
LiveWire Pro	Netscape	
Navisoft	N/A	
SiteMan 3	GreyScale Sysetms	Web Site Mgmt
WebAnalyzer	InContext	Web Site Mgmt
WebAnchor	Iconovex	Web Index
WebMapper	NetCarta	Web Util
WebMate/Foundation	WebMate Tech	Web site management
		via dbase
WorldGroup	Galacticomm	
Xpire Plus	Bungalow Systems	Web Site Mgmt

Languages: Internet Capable

PRODUCT	VENDOR	NOTES
Ada95		
AppleScript	Apple	
Awe	CandleWeb	
BEF		
С		
C++		
CCI		
CGI		
CMM		
Dylan		
Eiffel		
GEL		
Glyphic Script	Codeworks	
HTML		
HyperTalk		
Icon		
Java	Sun	
JavaScript	Netscape (and Sun)	
KQML		
Linda		
Lingo		
Lisp		
Logo		
ML		
Modula-3		
NewtonScript		
Obliq		
Perl		
Phantom		
Python		
REXX		
Sather		
ScriptX		
SDI		
Self		
sh, ksh, csh		
SIMPLE	Crystaliz	
Sloth	Crystaliz	
Smalltalk		
Tcl		

Cusick, J., "Web & Internet Application Development Tools", Web Week '96

Telescript		
Tycoon		
UserTalk	Frontier	
VBScript	Microsoft	
Viola		
VRML		
WebScript		