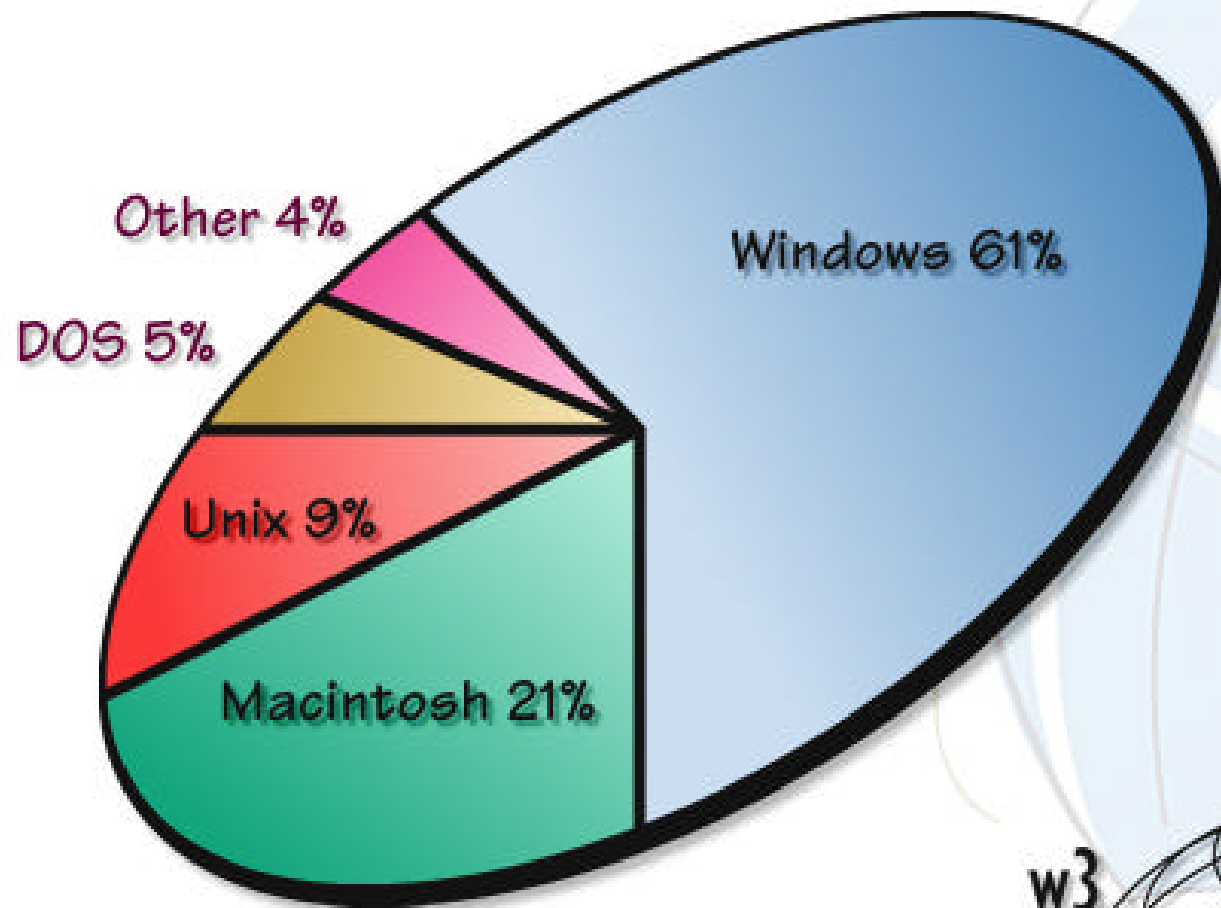




# Apple's Internet Strategy

# Internet Access by Platform

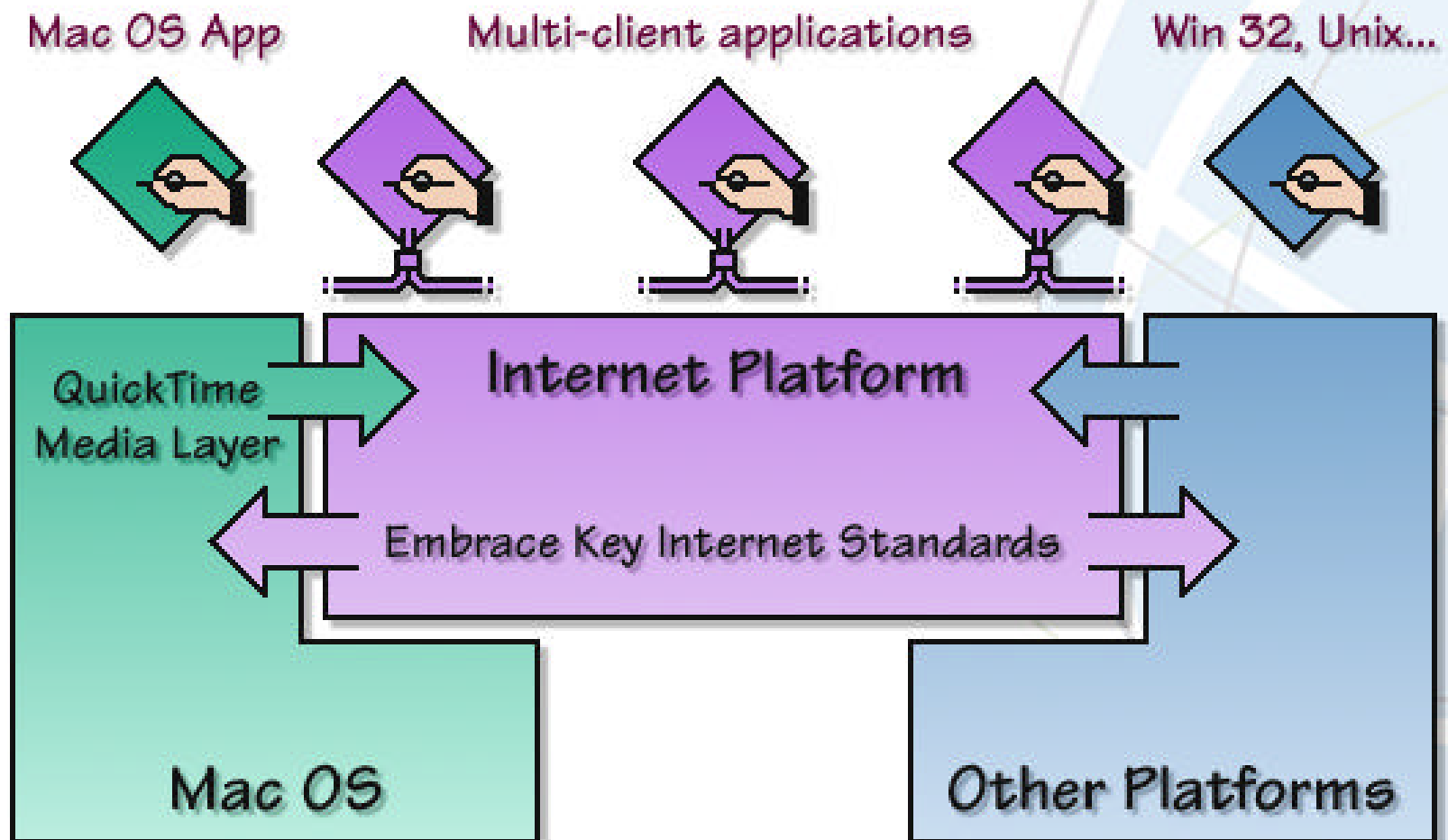


Versus 8.7% Overall Share



# The Open Internet Platform

Apple will work with any vendor that is committed to open Internet standards



# Apple and the Internet

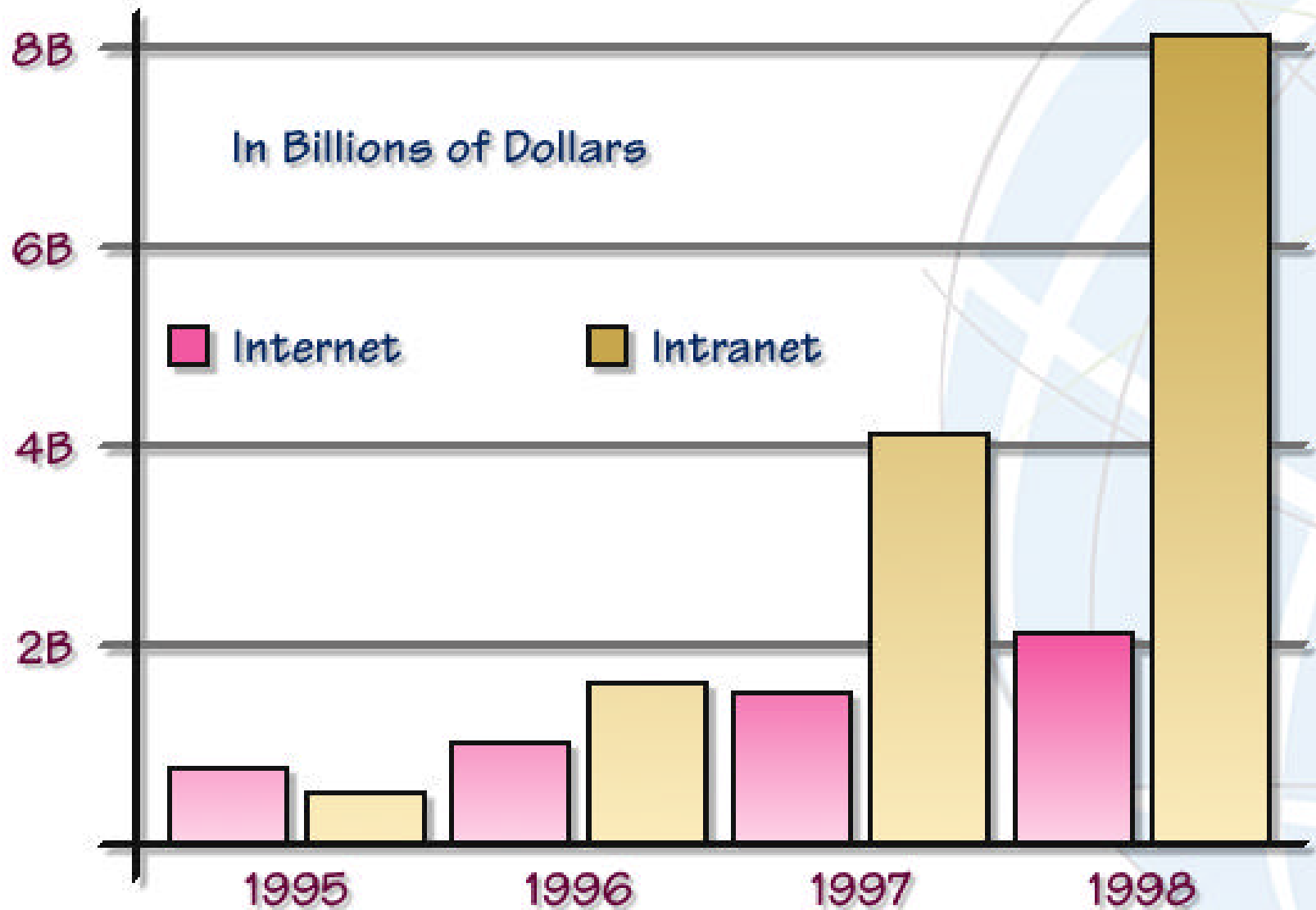
- Capitalizing on our core strengths

Ease of use

Media rich content



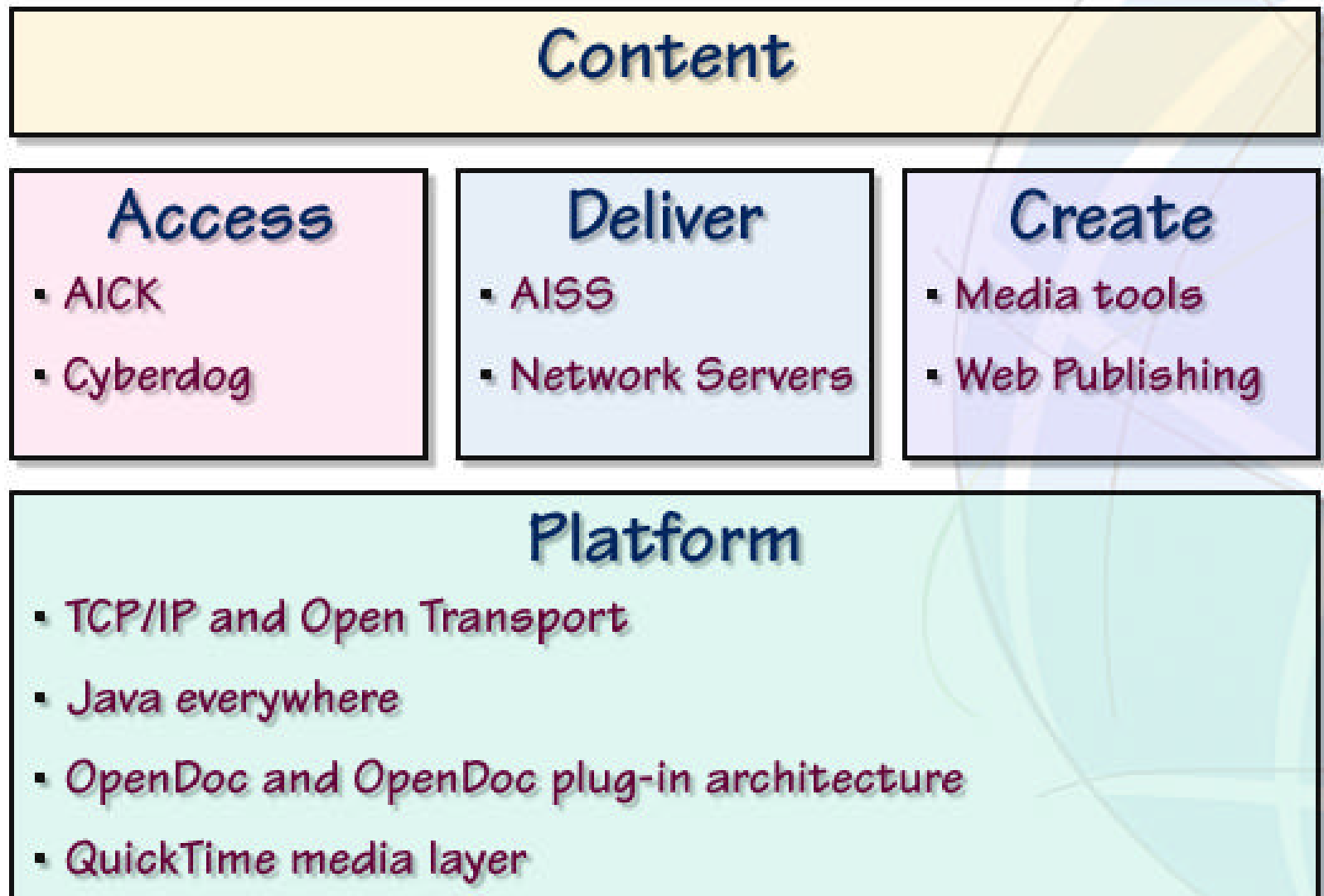
# Inter vs. Intranet Software Sales



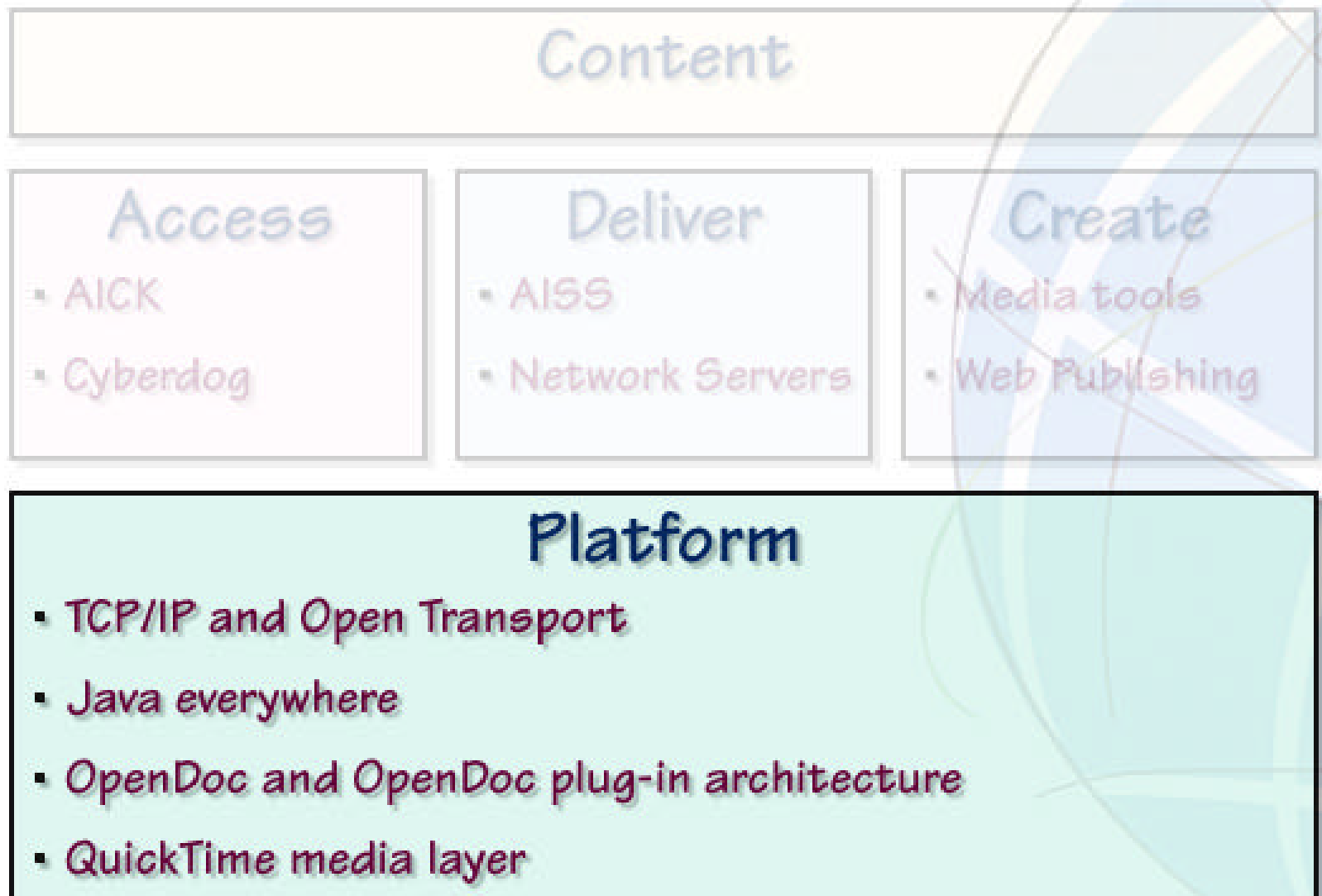
# Top IS Objectives

- Align IS and corporate goals: flexibility
- User access to cross-functional data
- Move legacy systems to new architectures
- Connect to customers and suppliers
- React to rapid shifts in technology

# Apple Internet Value Chain



# Apple Internet Value Chain





# Internet Platform Technologies

- **An open standards approach**

- TCP/IP
- HTTP
- Java
- OpenDoc
- QuickTime media layer
- HotSauce MCF



# TCP/IP and Apple

- The future of Apple networking is TCP/IP
- Open Transport made TCP/IP a peer protocol with AppleTalk
- TCP/IP across all client platforms:
  - Macintosh
  - Pippin
  - Newton
- Open Transport 1.1.1 and ARA 3.0

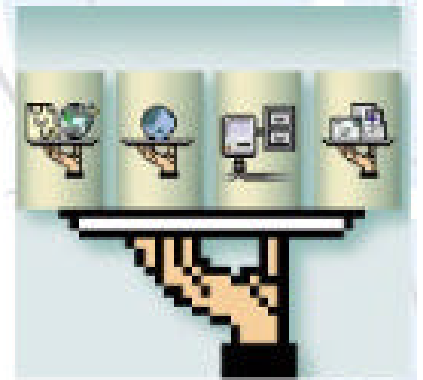
# TCP/IP and Apple

- **OT/PPP**

- IP over PPP
- Beta available on the web
- Final and posted on web by Dec. 1

- **FutureShare**

- Supports FTP, POP3/SMTP, AFP, AFP over IP
- Beta in November/December
- FCS by mid-February



# Java Everywhere



- MacOS Runtime (VM) pre-released
  - available on the web:  
[www.devtools.apple.com/mrj](http://www.devtools.apple.com/mrj)
- Driving it onto all of our platforms
- Integration with OpenDoc and QuickTime media layer
- Performance and reliability are key

# OpenDoc

- Apple integrating Internet into Mac OS via OpenDoc
- Recent developer commitments include:
  - Digital Harbor Wave container
  - Corel WordPerfect container
- OpenDoc plug-in architecture supports:
  - Netscape plug-ins
  - Java applets
  - OpenDoc parts
  - Other component architectures...
- IBM Windows beta available on the web  
<http://www.software.ibm.com/clubopendoc/odwinbeta.html>

# QuickTime Media Layer

- QuickTime for the Internet— release 2.5
  - FastStart, MPEG, MIDI
  - Music Architecture
  - Mac OS and Windows feature parity
- QuickTime Conferencing— backbone for QT Live events and collaboration
- QuickTime VR— de facto standard, under consideration for VRML
- QuickDraw 3D— part of VRML 2.0



# HotSauce™ Meta Content Format

- An open standard for representing information “about” content
- Can describe the content of:
  - Web sites: Hierarchies of linked pages
  - Gopher/FTP sites: Hierarchies of “folders”
  - E-mail: Date, To, Subject, ... fields
  - Catalogs: Merchants and Vendors
  - Databases: Hierarchical and Relational
- Platform/application independent

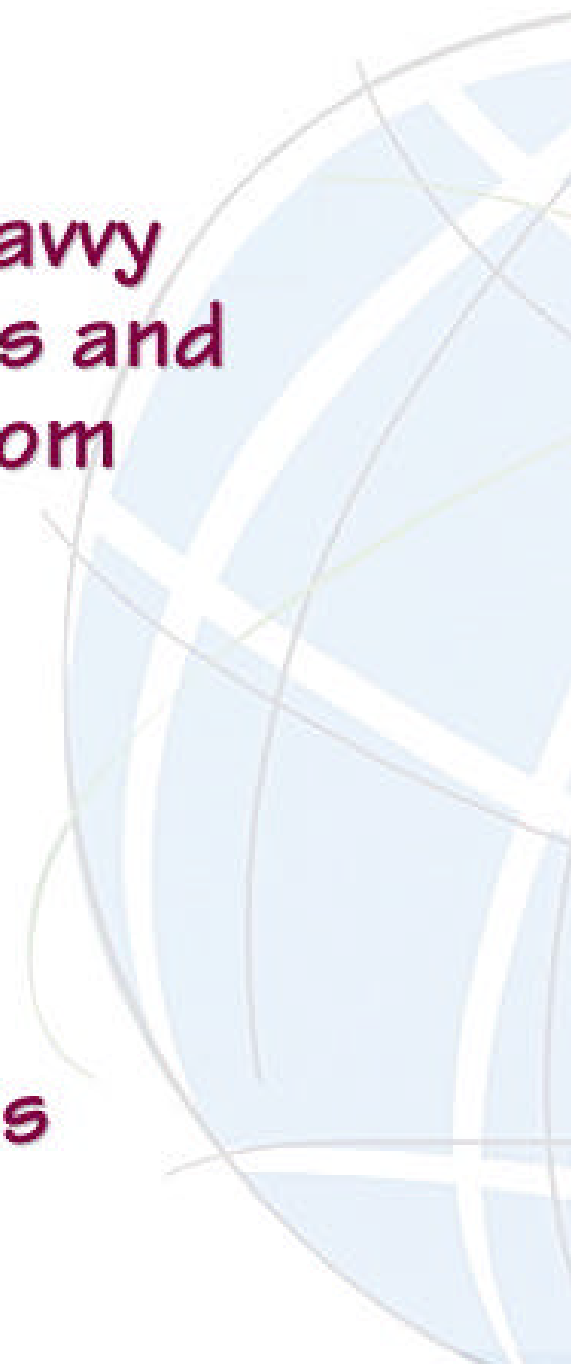
# Why HotSauce MCF?

- HTML is good for describing pages, but loses information when structured content is rendered
- MCF is a standard for describing how and where information is stored in structured content sources
- No other general metadata format has been proposed and accepted as a standard



# What MCF provides:

- Lets you use any MCF-savvy view/query tool to access and integrate information from multiple sources:
  - Local disk
  - LAN
  - Intranet
  - Internet
- As long as the content is described in MCF



# HotSauce fly-through plug-in

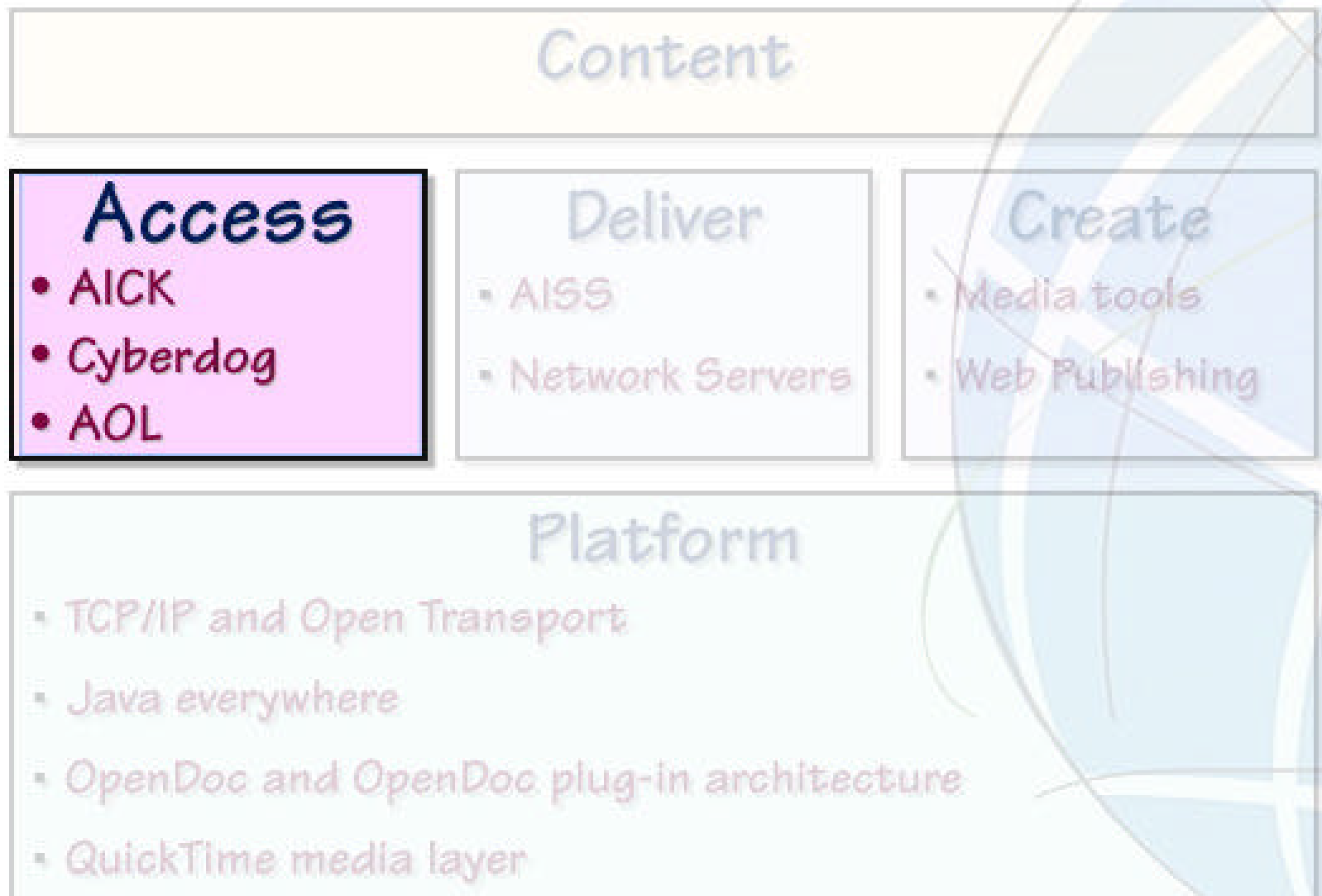
- Big picture of a web site
- Works with all popular web browsers
- Mac OS and Win32 compatible
- Alternate views available
  - Outline view (Finder-like)
  - Hyperbolic view (XSoft)



# Benefits of MCF

- Easier access to information and information relationships
- Open standards-based platform leverages development investment
- Faster / easier integration with MCF data outside corporate firewall

# Apple Internet Value Chain



# Internet Client Access

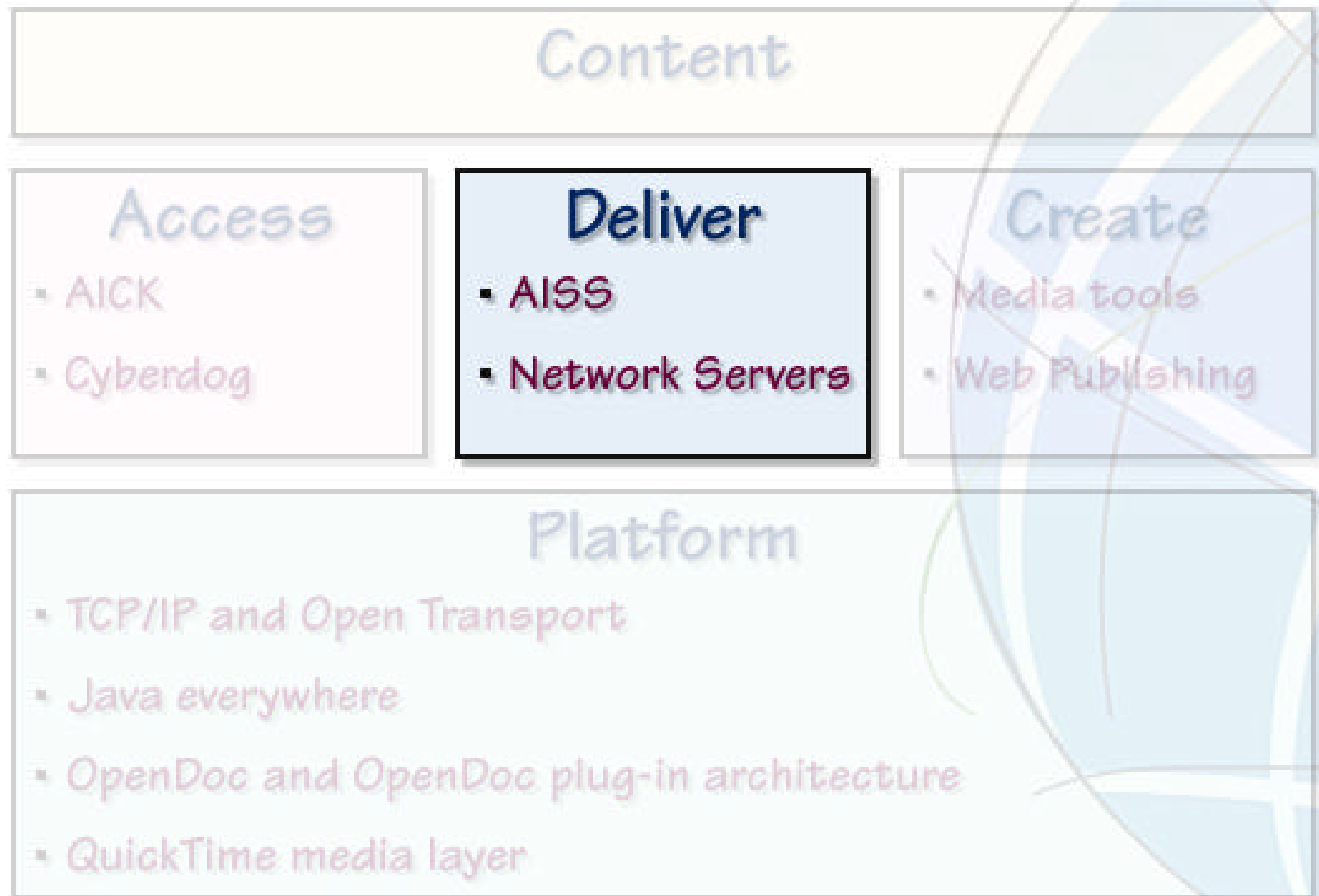
- **Apple Internet Connection Kit (AICK)**  
Best of class Internet application bundle  
Apple Guide lowers support costs
- **Cyberdog**  
Component software internet application “suite”  
Enables custom IS solutions
- **Apple will continue to develop and support both products**

# Cyberdog 1.2

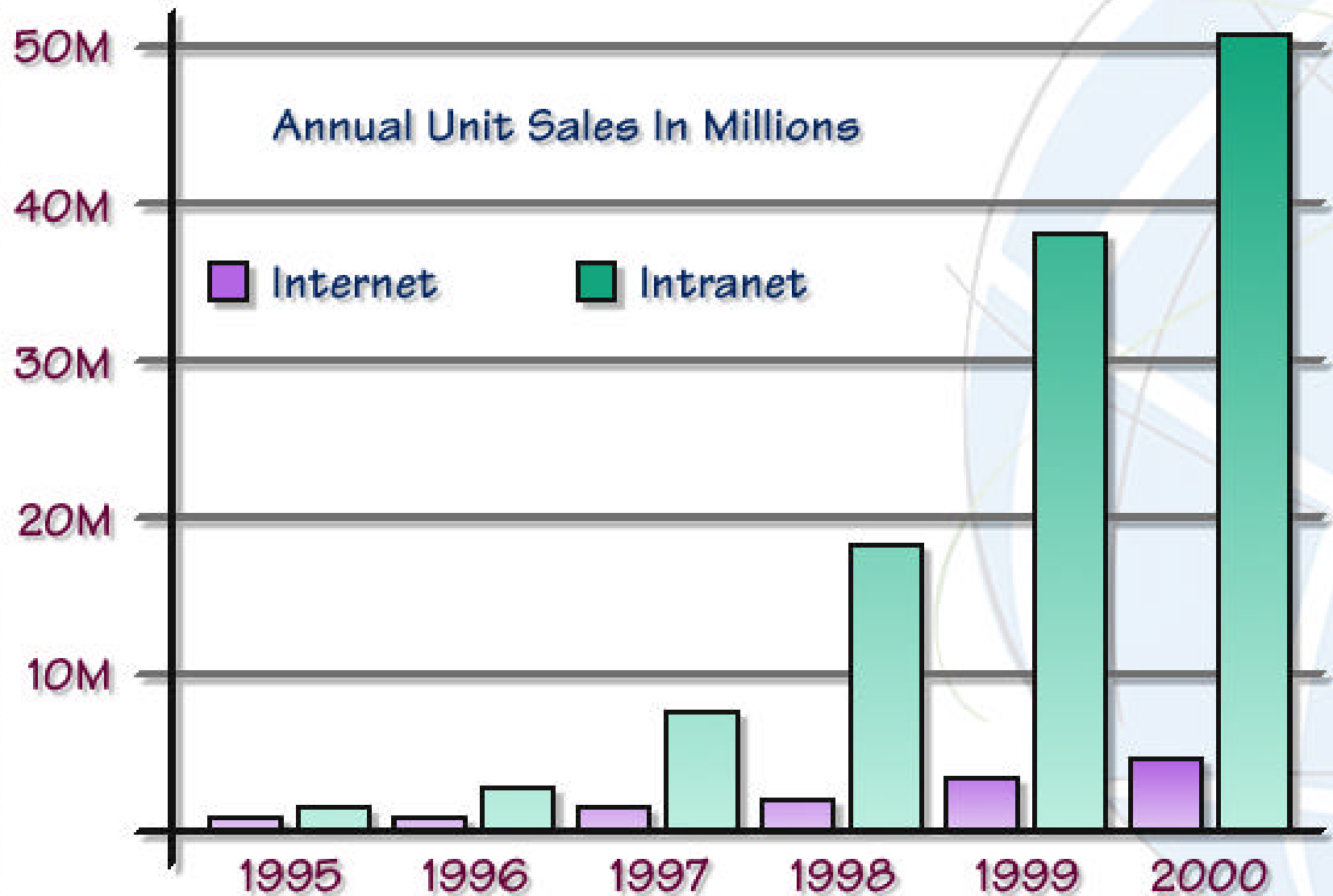
- **Cyberdog 1.2**
  - Improved user interface
  - Runs on PPC and 68K Macs
  - AppleTalk network browsing
  - Netscape plug-in support
  - WorldScript (double byte) aware



# Apple Internet Value Chain



# Inter vs. Intranet Server Sales



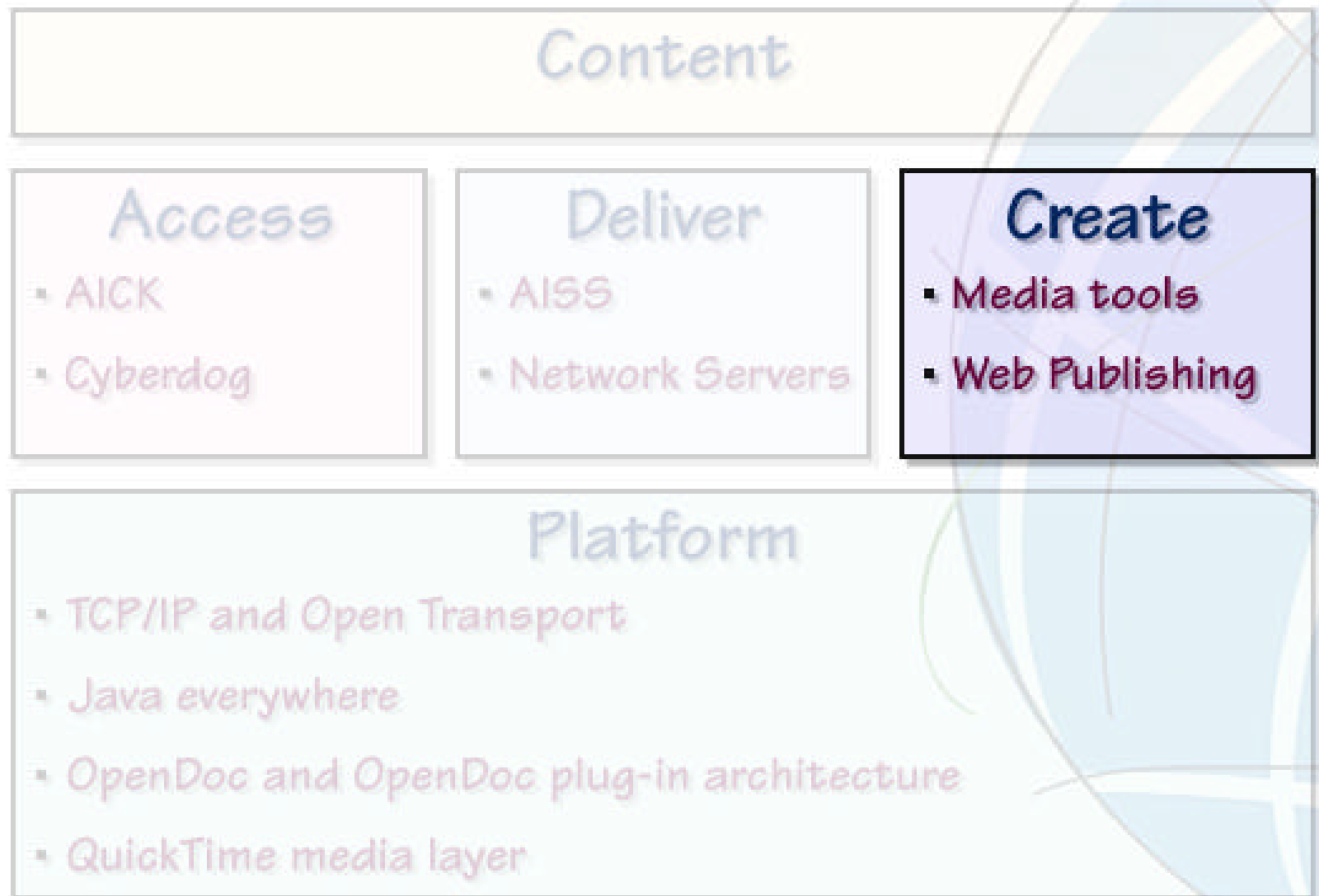


# Internet Delivery: Servers

- Apple Internet servers scale from the workgroup to the enterprise
- Apple Internet Server Solution (AISS)
  - Mac OS based
  - Easy to setup and administer
  - Complete web server solution
  - 100,000s of hits per day
- Network Server 500 and 700
  - AIX based
  - Value added server hardware
  - Faster real time processing
  - 1,000,000s of hits per day

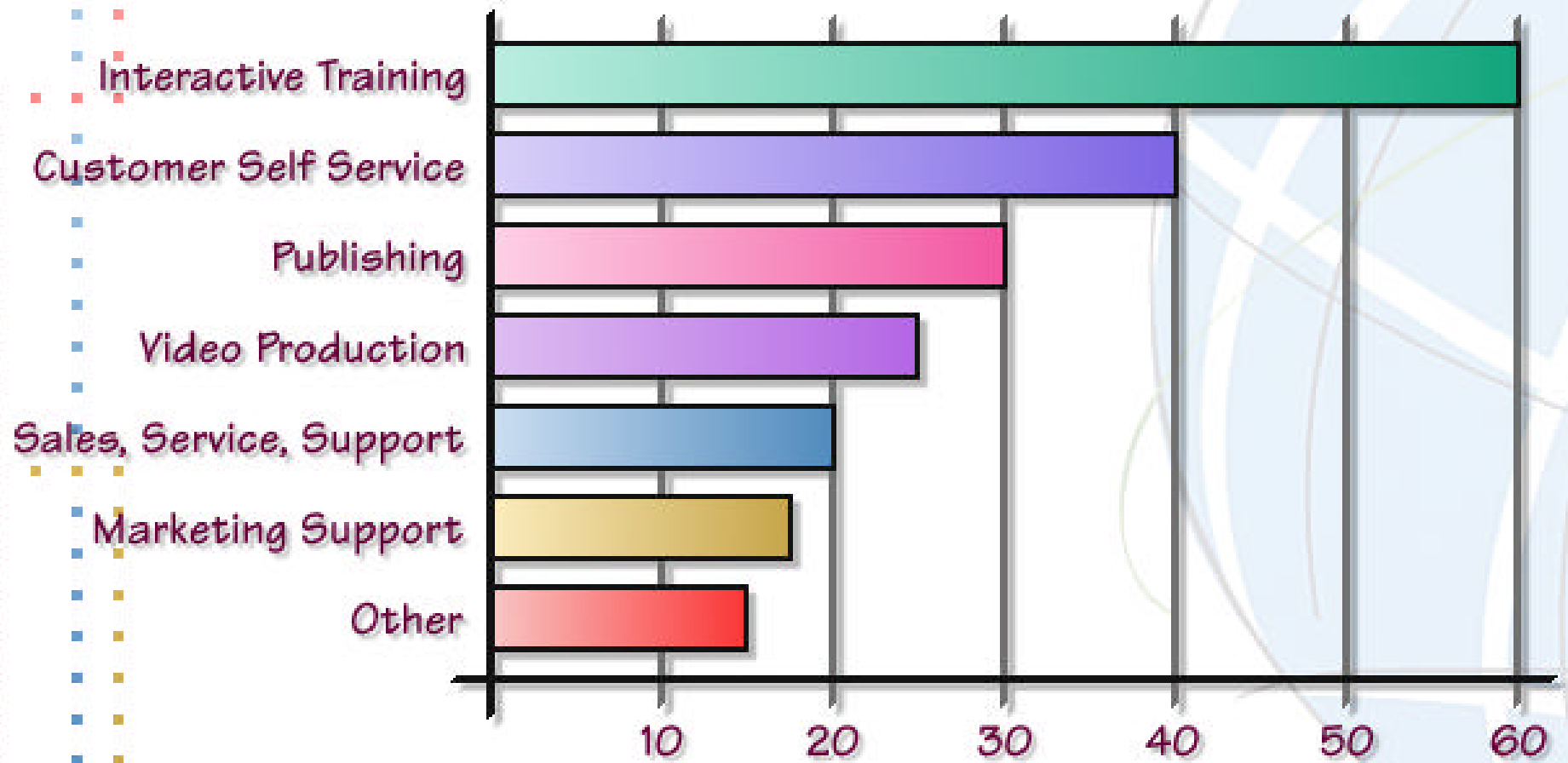


# Apple Internet Value Chain



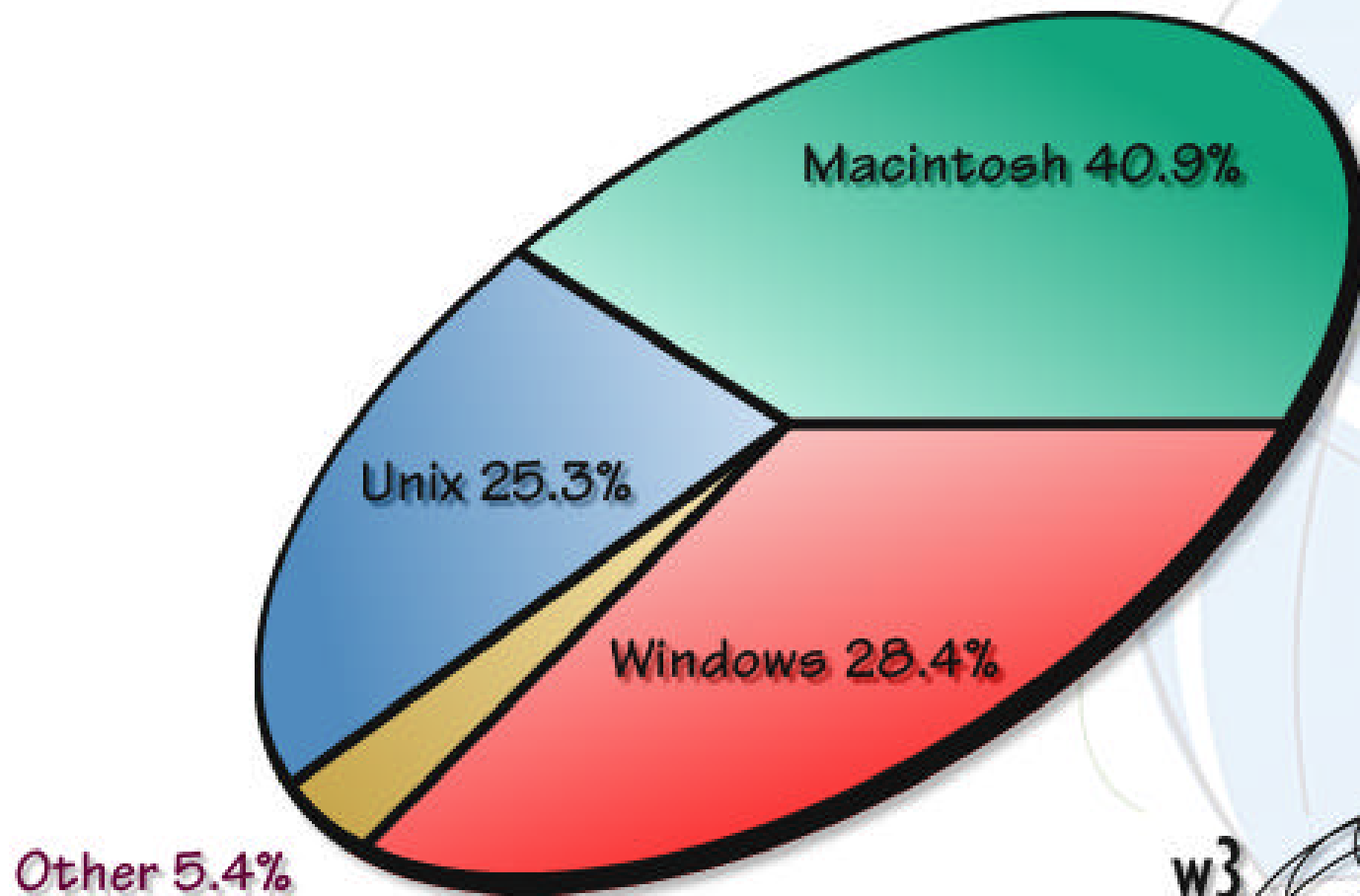
# IS Goes Hollywood?

IS intends to implement multimedia applications

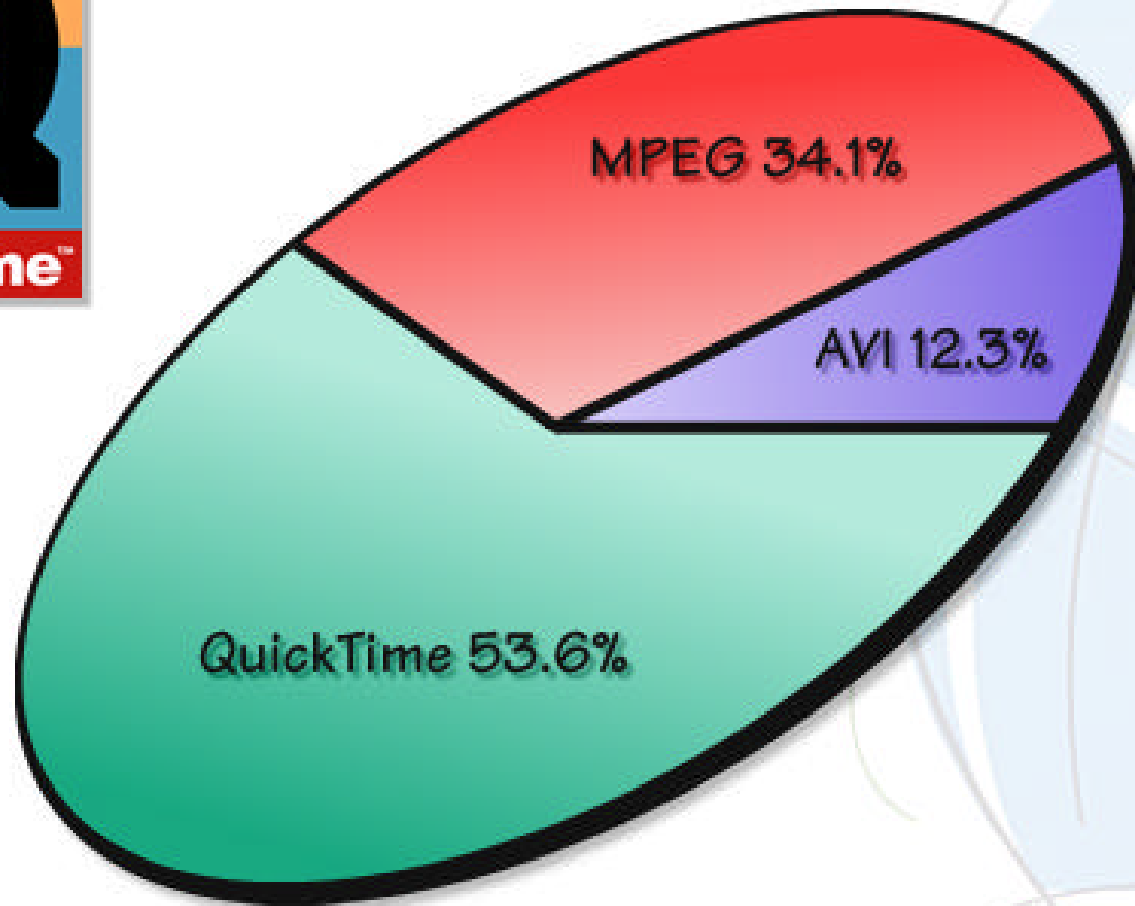


Source: Gartner Group

# WWW Graphics Design

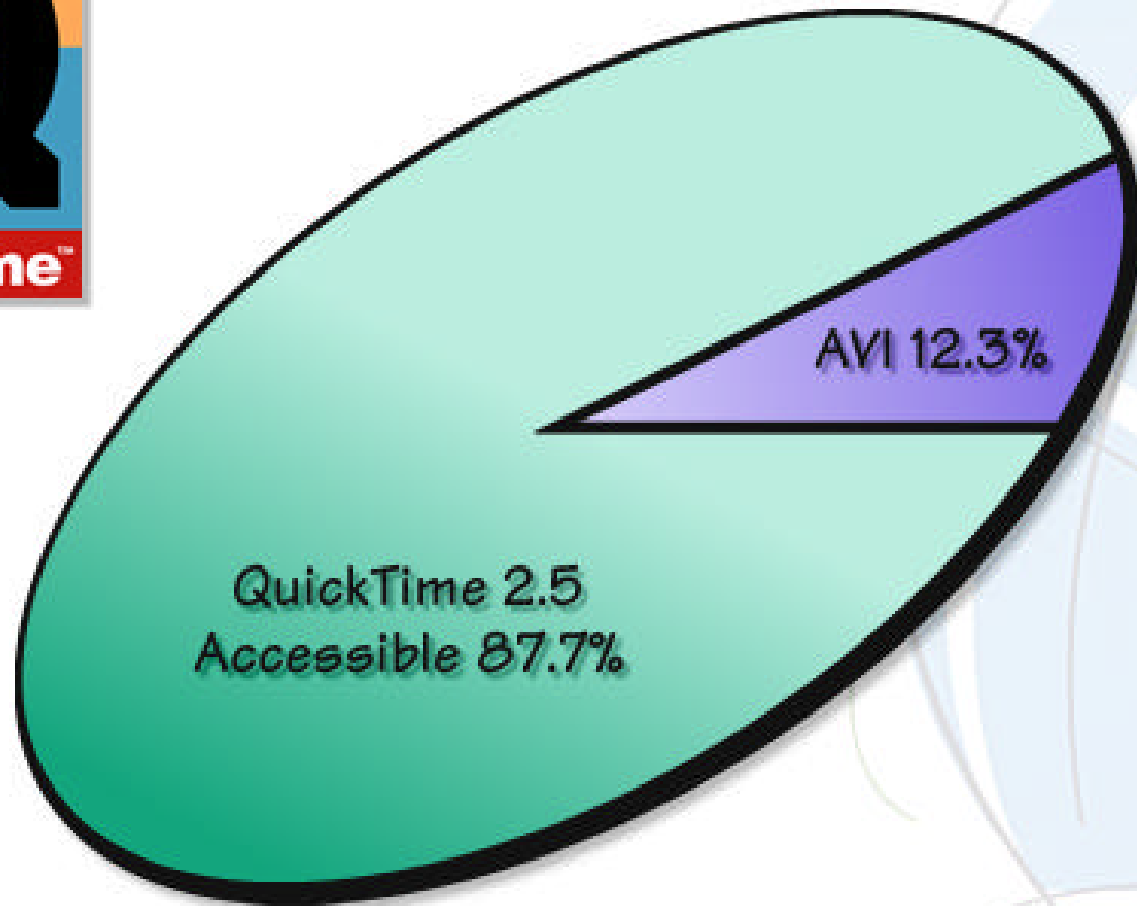


# Internet Video Content



Source: Internet Multimedia Technology Survey

# Internet Video Content



Source: Internet Multimedia Technology Survey

# Internet Content Tools: Create

- Extend leadership positions in publishing and media authoring to the Internet
- Work with developers to deliver:
  - Media content creation tools
  - Electronic publishing tools
  - Web authoring tools
  - Dynamic web page tools
  - Innovative Java development tools

# Summary



- Apple is committed to embracing open Internet standards
- Apple is contributing QuickTime and MCF to the Internet community
- OpenDoc component architecture integrates Multimedia and Internet everywhere
- Apple will make the Internet as easy to use as the Macintosh





The power to be your best



The power to be your best