User Interface Directions

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User Interface Goals
For Internet add-on

◆ **Easy to browse <u>any</u> content or information**

◆ **Integration! (Local, LAN, and Internet)**

◆ **Better Internet browsing (system-wide favorites and history, rated content, etc.)**

◆ **Make your PC more engaging and fun to use, via <u>active content</u>**

Remember: In this talk "Shell" = "Web browser!"

Shell Features Overview
For end users

- ◆ **Web-like view of shell folders**
- ◆ **Integrated Web browsing in the shell**
- ◆ **Improved navigation UI (history, favorites)**
- ◆ **Enhanced Internet shortcuts (.urls)**
- ◆ **Smart favorites**
- ◆ **Site map**
- ◆ **Ratings**
- ◆ **Themes**

Why You Should Care

◆ **If you have a Web site:** exploit <u>all</u> these in your HTML

◆ **If you are writing Web authoring tools:** support <u>all</u> these in your toolset

◆ **If you are a Win32® productivity application or utility:** there are new shell extensibility mechanisms, controls enhancements, and UI paradigms that you may want to use; <u>and</u>, you should rethink how your application's folder should appear in the shell

◆ **If you are looking for new product ideas or new value-add for existing projects:** consider what you could do with themes

Web-Like View Of Folders

◆ **Single-click activation**

◆ **Rich description of folders (HTML/...)**

◆ **Folder views can be easily customized**

◆ **Supports all the programmability of Sweeper Web pages (Active Controls, Active Documents etc.)**
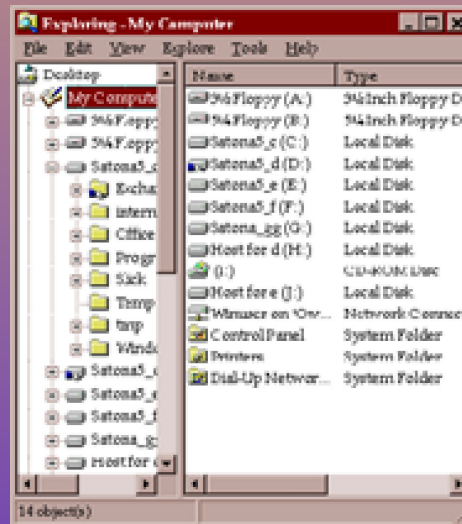

In your applications: Create custom HTML views of your application folder! You can include hyperlinks, live Active Controls, Help text, support info, etc.

Integration

◆ **Internet Explorer + Shell Explorer = browsing the Web using the shell**
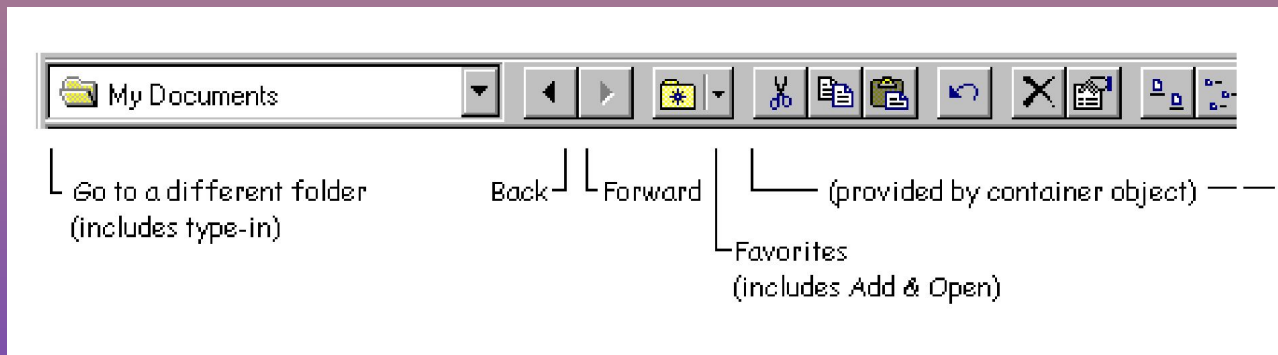
◆ **No separate Internet browser is required**

Internet Explorer

Shell Explorer

Explorer for Internet Add-On

Better Navigation UI

◆ **Per-window (session) history list**

◆ **Back/Next**

◆ **Favorites**

◆ **"Go" menu consistent with Internet Explorer**

My Documents

Go to a different folder
(includes type-in)

Back | Forward

(provided by container object) — —

Favorites
(includes Add & Open)

In your applications: You can provide Web-like navigation UI (hyperlinks) and include Back/Next buttons via our hyperlink interfaces

Enhanced Internet Shortcuts

◆ **Rich properties**
  ➢ **Last visited**
  ➢ **Last changed**
  ➢ **What's new**
  ➢ **Author**
  ➢ **Description**
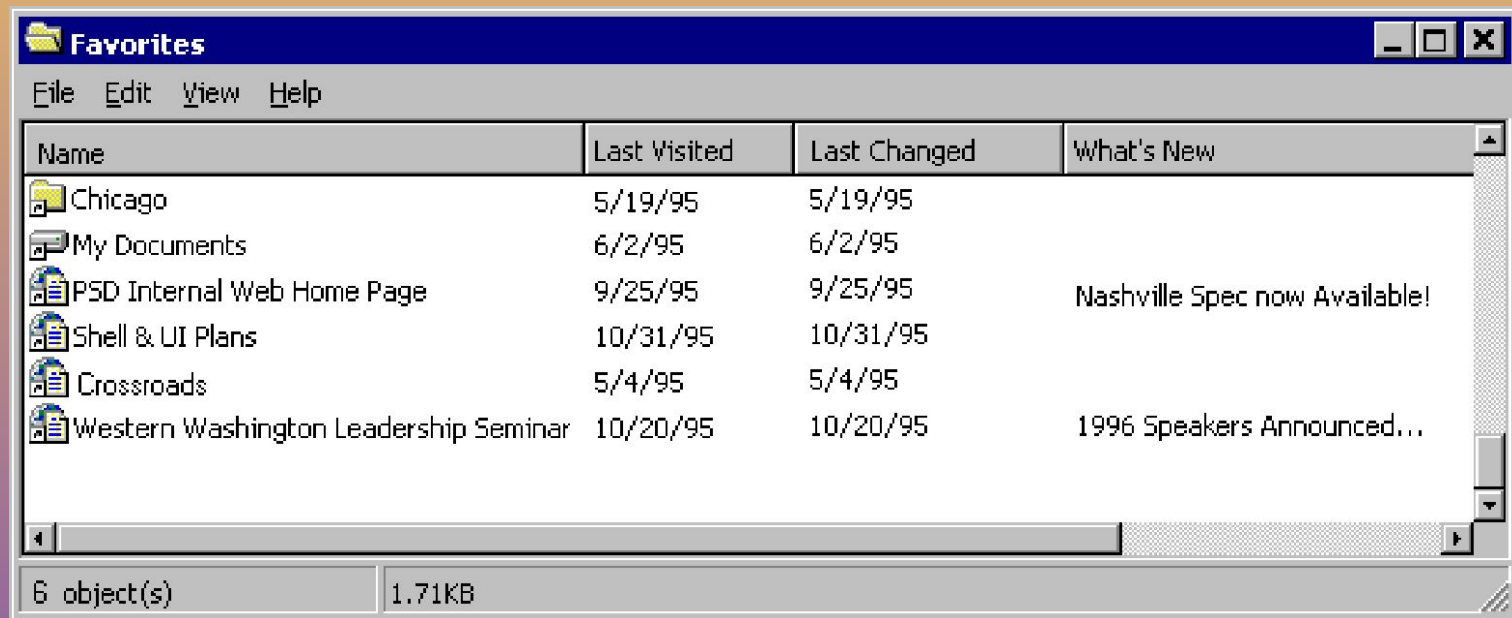
◆ **Per-instance icons**
  ➢ **Shows file type (e.g., Word document on the Internet)**
  ➢ **Can have custom HTML page icons**
  ➢ **Indicates URL "state" (e.g., cached, updated)**

◆ **Can store custom properties**

Smart Favorites

◆ **Browser "Favorites" menu (tooltip and icons tell "What's New")**

◆ **Prepopulated folders**

◆ **WebCheck engine - updates in the background**

◆ **Cache**

➢ **Enables offline reading (Sticky Caching)**

➢ **Quicker viewing**

Details View Of Favorites Folder

Name	Last Visited	Last Changed	What's New
Chicago	5/19/95	5/19/95	
My Documents	6/2/95	6/2/95	
PSD Internal Web Home Page	9/25/95	9/25/95	Nashville Spec now Available!
Shell & UI Plans	10/31/95	10/31/95	
Crossroads	5/4/95	5/4/95	
Western Washington Leadership Seminar	10/20/95	10/20/95	1996 Speakers Announced...

6 object(s)   1.71KB

WebCheck

◆ **Notification of changes to your favorite Web sites**

➢ **Check all by default**

➢ **Background checking**

➢ **Scheduled using System Agent**

◆ **Cache updating**

◆ **Bulletin, or What's New Text**

Offline Reading (Sticky Cache)

◆ **Ability to mark selected favorite sites to be permanently cached on your local machine**

◆ **Integrated with WebCheck, for automatic updating**

Site Map

Site Map - Goals

◆ **Provide a hierarchical view for navigation of Web sites** - determined by the author, not based on HTML file storage

◆ **Enhance ability of Web crawlers and Web searching tools** to obtain semantic information about sites

Site Map - Implementation

◆ **Content owners must create a special sitemap file containing the details**

◆ **Use Object tag in HTML to specify sitemap**

```
<object data =
    "http://www.foobar.com/sitemap.smp"
    type="text/smp" height=0 width=0>
```

Format Of SMP File

Each entry or item in the
Map file would consist of
the following syntax:

```
(NAME="Home Page" URL =
"http://www.microsoft.com"
ICON = Globe.bmp)
```

Content Advisor – Why We Are Providing Internet Ratings

◆ **Enables parents to restrict kids' access to Internet sites of certain ratings**

◆ **Supports PICS Committee (Platform for Internet Content Selection, WC3) Standard**

➢ **Leading effort to support a ratings system for Web content (e.g., like Motion Picture Association of America for movies. E.g., G, PG, R)**

➢ **Defined meta-language for what rating systems should look like**

➢ **Microsoft is not defining a rating system**

Note: Ratings restrictions on a per-system basis to be provided with Internet Explorer 3.0

Content Advisor - UI Overview

◆ **New UI in control panel to set individual ratings for content access per user**

◆ **New family-friendly log on**

◆ **Partnership with RSACi to provide our default ratings criteria**

In your applications: If you provide content (e.g., CD-ROM game or multimedia title) you can rate your content as well. The shell will check CDs

Ratings: Rating A Site

◆ **Page rating in HTML stream**

```
<HTML>

<HEAD>

(PICS-1.0 "http://www.gcf.org"

labels on "1994.11.05T08:15-0500"

until "1995.12.31T23:59-0000"

for "http://www.gcf.org/index.html"

by "International Parent/Teacher Association"

ratings (language 0.5 nudity 0 violence 1))

</HEAD>
```

Enhanced Themes

◆ **New content for themes** **(background sounds, screen savers, icons, bitmaps, etc.)**

➢ **Plus customized Pageview templates**

◆ **Wired**

➢ **Updated content (daily, weekly, etc.)**

➢ **Live content (e.g., stock ticker)**

Programmability Features

Summary of ideas for Win32 applications

◆ **Active Controls** - new features for any application

◆ **Hypertext View** - add your own custom views via various implementations. Great for creating new file utilities (ACME SuperView)

◆ **Active Document** - integrate your document type into the shell as a Web page

◆ **Folder aggregation** - create your own customized details view (or other functionality)

◆ **OLE Automation** - drive the shell from an external application or internal HTML page

Active Controls

◆ **Enhancements to existing controls**
  ➢ **Smooth scrolling**
  ➢ **Tree-down in treeview**
  ➢ **Virtual support in listview**

◆ **New controls**
  ➢ **Date picker**
  ➢ **Shell View Control**
  ➢ **Shell Item Control**
  ➢ **Miscellaneous Controls (TBD)**

Note: **Controls changes to be provided with Internet Explorer 3.0, Sweeper SDK**

Adding Views To The Shell

◆ **Add your own custom view to the View menu of the shell** (example: ACME SuperView)

◆ **Can be used either:**

➢ **In only a specific folder**

➢ **For all folders of a particular container-class (e.g. file system folders)**

.reg file

```
REGEDIT4

[HKEY_CLASSES_ROOT\CLSID\
{8B618980-5727-11CF-ABA9-08002B2E1262}]
@="ViewName for the View menu”

[HKEY_CLASSES_ROOT\CLSID\
{8B618980-5727-11CF-ABA9-08002B2E1262}\TreatAs]
@="{5984FFE0-28D4-11CF-AE66-08002B2E1262}"

[HKEY_CLASSES_ROOT\CLSID\
{8B618980-5727-11CF-ABA9-08002B2E1262}\FilterView]
@="{25336920-03F9-11CF-8FD0-00AA00686F13}"
```

desktop.ini file
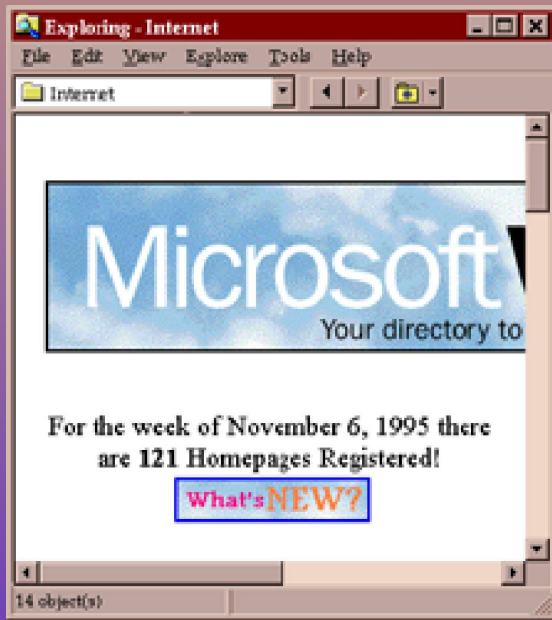
```
[ExtShellFolderViews]
{5984FFE0-28D4-11CF-AE66-08002B2E1262}=pageview.htm
{8B618980-5727-11CF-ABA9-08002B2E1262}=customview.htm
```

In-Place Navigation
(Be an Active Document)

◆ **The shell can act as the "host" for any document type that will act as a Web**

  ➢ **HTML**

  ➢ **VRML**

  ➢ **Win32 applications: Microsoft® Office, Visio®, Micrografx®**

In your applications: You can make your content browsable as a "Web." Support Active Document and hyperlinking

In-Place Navigation

◆ **Browsing across multiple formats**

◆ **Browser UI (Go/Favorites menus, shell toolbar) remains in place**

HTML

Word document

PowerPoint slides

In-Place Navigation
UI guidelines

◆ **Opening in-pane is NOT the default -** to open in-pane an author must specify that behavior for an authored hyperlink (or the user can override)

◆ **Prompt for saving changes** when the user leaves your document

◆ **Display minimal editing/adornment UI when your document appears -** optimize for reading

Folder Aggregation

- Use this to add new columns to a folder view
- Allows you to modify information provided by file system's IShellFolder
- you can use the shell's IShellFolder and all of its functionality, and append new functionality without having to rewrite all of IShellFolder

OLE Automation

◆ **Write scripts to drive the shell or respond to shell events**

◆ **There are three main places you will be able to use this within the Shell**

➢ **Within a Web page (local folder or Internet)**

➢ **Automation of frame controls in the explorer (Back, Next, Go to Page/Folder)**

➢ **High-level Shell integration (Start menu, Windows®, etc.)**

Attend Charlie Kindel's talk for more details!

Questions And Answers