Usability, Accessibility and Localization

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Module Overview

Usability

Ease of use
"Pit of success"
Discoverability

Accessibility

Keyboard navigation

Large fonts and high contrast

Screen readers

Localization

Languages
Cultures
Resources

Accessibility

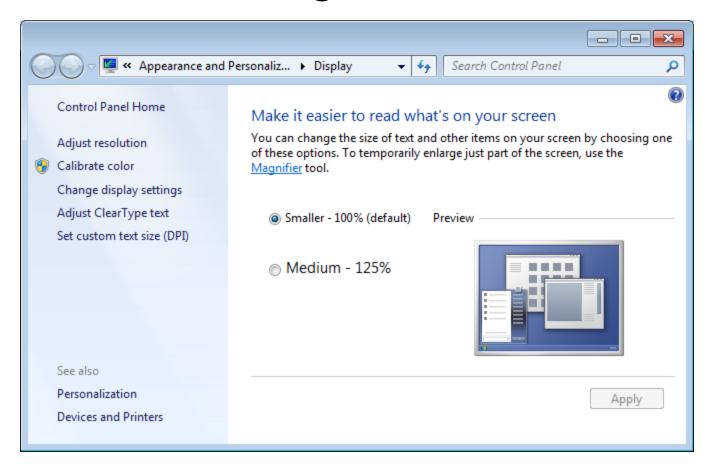
Large Fontallell Contract

High Contrast



SystemInformation.HighContrast

Large Fonts



AutoScaleMode.Font

CreateGraphics().DpiX

ScreenReader Support

Property	Meaning	Example
AccessibleName	What it is	Podcast title
AccessibleDescription	What it looks like	Image of a microphone
AccessibleRole	What it is for	ComboBox

Keyboard Navigation

Tab Order

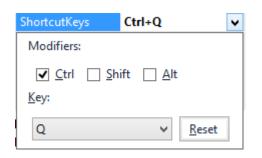
Control.TabIndex
Control.TabStop

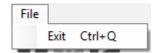
Buttons

Mnemonics: "&Play"
Form.AcceptButton & CancelButton
override Form.ProcessCmdKey
button.PerformClick()

Menus

Menultem.ShortcutKeys





Usability

http://pluralsight.com/training/Courses#ux-design

It's obvious!

Perform usability tests

Familiarity

Use standard controls and dialogs if possible

Add Remove Button

Add Remove Label

Discoverability

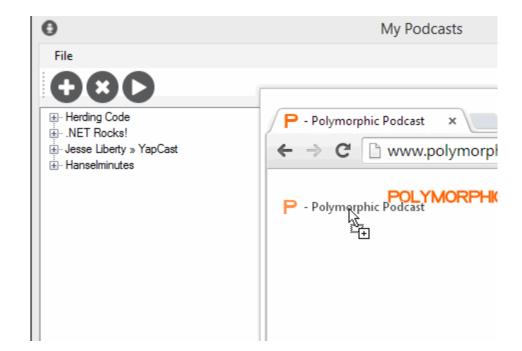
Add

Remove

How do I subscribe and unsubscribe from podcasts?







Help the User Get it Right

Explain ToolTip Help (F1) First Run Tutorials & Hints Wizards **ErrorProvider**

Entering the Right Data

Text Input

- TextBox.MaxLength
- TextBox.AutoCompleteCustomSource

Numeric Input

- NumericUpDown
- TrackBar

Date Input

- DateTimePicker
- MonthCalendar

Localization



Introduction to Localization and Globalization in .NET

Get your applications ready to take on the world. We'll learn about the features of localization and globalization that are built in to .NET.











Authored by: Jeremy Clark

Duration: 3h 0m Level: Intermediate Released: 1/2/2014

Features: CC

Course Rating: 🖈 🖈 🛊 🛊

Localizing an Application

Translation

- Mnemonics may need to change
- Images and Icons

Update Layouts

- Label sizes
- Right to left languages
- TableLayoutPanel.RightToLeftLayout

Formatting

- Date Time formats
- Sort order
- Currency

Localizing Windows Forms

Forms and User Controls

- Default resource file (e.g. EpisodeView.resx)
- □ Set Localizable = true
- Select a language (e.g. French (Belgian))
- Localized resource file (e.g. EpisodeView.fr-BE.rex)
- Contains differences only

Other Localizable Text and Resources

Don't hard-code user visible strings - create a resource file

Testing it out

- Thread.CurrentUlCulture (which resources to use)
- Thread.CurrentCulture (date formats, string comparisons etc)

Module Summary

Consider the needs of your users

Accessibility

Keyboard Navigation

Usability

Localization

Best Practices



Test your application for accessibility

Large Fonts High Contrast Virtual Machine

Make your application keyboard navigable

Tab Order Mnemonics Shortcuts

Help your users to get it right

Usability tests Familiarity Discoverability

First Run Help ToolTips Error
Providers

Use resource files for all localizable content

Form resx files Additional resx files
String

Date formatting comparison