## Usability and Accessibility



#### Macro Media's Usability Tips

- Remember user goals
  Remember site goals
  Avoid unnecessary introductions
   Provide logical navigation and interactivity
- > Design for consistency
- Don't overuse animation
- Use sound sparingly
- Target low bandwidth users
- ✤ Test for usability

# Sample Test for Web Site Usability

- \* Ask users to answer two factual questions based on the web site information
- Ask users to answer two task oriented questions from the web site information
- Ask users to share the subjective impressions about the ability of the web site content to meet their needs in an interview setting
- Have users complete a post test survey regarding their overall experience



## Advantages of Usability Metrics

- You can track progress between releases
- You can assess your competitive position
- They help you make stop or go decisions prior to product launch
  - They can serve as the basis of bonus plans for design managers



## Usability Performance Measures

- Time to learn
  - Speed of performance
  - 🐸 User error rates
  - Retention over time
  - Subjective satisfaction



#### How many users do you need to measure?

 If you are doing qualitative testing, it is enough to obtain data from 3 to 5 users
 If you are collecting quantitative data, you should test 20 or more users



#### Measuring Success

% improvement can be useful (eg. time to complete task in old and new design)
 Several % improvement scores are may be combined by computing their geometric mean
 Geometric mean in the N<sup>th</sup> root of the product of N numbers



### What are accessibility concerns?

Low visual acuity Color blindness **Deafness** Language impairments Cultural differences



#### Why make pages more accessible?

- Reach as many readers as possible
- Automation tools and search engines work better
  - Concern over customer alienation



- Adhere to accessibility guidelines
- Test for accessibility
- Provide alternate pages to accommodate users with varying needs



#### Accessibility Guidelines - part 1

- Tables are fine, IF they read left-right/top-bottom
  Text columns are ok if the spacing works in various environments
- 'Fancy Stuff' i.e. fonts, style sheets as long as page is functional with these options turned off
- Provide 'ALT' text for graphics
- を Make image maps client side
- Provide useful text links (e.g. not 'click here')

#### Accessibility Guidelines - part 2

- Provide good keyboard navigation
- Alternatives for controls and applets
- Frames/Noframes, (be sure to provide a reasonable 'noframe' option)
- Be aware of unusual formats
- Avoid scrolling marquees
- Provide titles/names for most objects



## **Testing for Accessibility**

- 🔺 Turn off graphics
- 🍹 Turn off sound
- 😻 Turn off style sheets
- Choose "high contrast" option
- Use largest font size
- 🗞 Re-size browser window
  - Navigate using keyboard
- Select all text and copy into clipboard, paste elsewhere
  - Use a specialized browser or analysis tools