

ATIA 2010 Orlando

Showcasing Excellence in Assistive Technology

Web Accessibility: Taking control with speech

Kimberly Patch
www.redstartsystems.com

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Showcasing Excellence in Assistive Technology

Outline

- Background
- Equipment
- Overview of Utter Command
- Standards and Web accessibility
- Using speech to do absolutely anything you want on the Web

Feel free to send me webpages you find difficult to use with speech Kim@redstartsystems.com

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Utter Command

1. Fast, intuitive command system

- **Language** that's natural for *command-and-control* enables you to speak in command phrases

2. Powerful applets

- **Rulers** (single-step mouse control)
- **UC List** (tools to speed up many types of tasks)
- **UC Clipboard** (sort information as you collect it)

3. Extensive learning materials

- Cheat sheets, Full Reference, Lessons, step-by-step Tours
- Single speech command calls up any subsection
- **On-screen guides**: efficient process, training www.atia.org

Demo: Key elements

- **Rulers** – hands-free mouse control
- **UC List**
 - **name a mouse click**
 - go directly to any **folder**, file, website
 - find any **number** or keyword
 - fast e-mail, forms and commandline
 - reminders
- **On-screen guides** – makes it easier to implement procedures and train www.atia.org

Standards

- Standard keyboard shortcuts make the Web more accessible and easier to use for everyone – they're the hooks for accessibility applications including speech
- Apply standard keyboard shortcuts to Web apps
- Utter Command allows you to speak keyboard – say keys and keyboard shortcuts in phrases – to give you one way to control your computer that's easy to figure out

Fields

Standard keys:

Tab, Enter

Utter Command examples:

3 Tab

2 Tab · Enter

Menus and Drop-Down Lists

Standard keys:

Letters, Up, Down, Left, Right, Enter,
Alternate Down, Escape

Utter Command examples:

2 Down · Enter

Letter k e · Enter

In an Imperfect World

We need to push for standards, but in addition, we need good ways to sidestep poor accessibility.

(Good workarounds enable more people to more easily push for good standards.)

Workarounds

The mouse control you saw previously lets you get around any program no matter what. If you can't find a better way you can always use

1. One-step mouse control

50 By 50

2. Or set up named mouse clicks

Bullet Touch – clicks button

Color Red Touch – clicks drop-down menu item

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Better Solutions

It's inefficient to open a browser, then a site – most of the time you open a browser your ultimate goal is a website, so why make it multiple steps?

The UC List site ability is similar to the folder ability you saw earlier.

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Utter Command Site List Demo

Weather Site

New York Times Site

Redstart Systems Site

Tab Back

Tab Forward

Window Close

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Better Solutions

Rudolf Noe's mouseless browsing plug-in for Firefox puts numbers on every element including links and form fields so you can navigate by keyboard using numbers. Utter Command lets you speak the mouse numbers.

Bonus: labels are shortcuts whether or not you can see them on the screen. You can access menu items without going through the menus once you know the number.

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Mouseless Browsing Demo

Google Docs Site
Redstart Demo Enter
Zoom In 2
4 Go
Down Enter
Redstart Demonstration
7 Go
86 Go
86 Go
Window Close

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UC List

- name a mouse click
- go directly to any file, folder, website
- find any number or keyword
- fast e-mail, forms and commandline
- reminders

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Better Solutions – fast forms

Mixing text and tab key commands is a simple ability that's powerful in Web forms

- You can have different written and spoken forms for the text in this command. You can say, for instance, “e-mail”, to represent more complicated text like “kim@redstart systems.com”

Fast Forms Demo - 10 Steps

Demo 2 File

Zoom In 2

2 Tab Kimberly · 1 Tab Patch

1 Tab President · 1 Tab Redstart Systems

1 Tab Address · 2 Tab Boston

1 Tab Massachusetts · 1 Tab Zip

Zoom Out 2

1 Go

Tab Delete Repeat 10

Window Close

Several Tasks With Each List

There are usually several things you can do with each List, for example

- “Redstart Systems Site” goes directly to a website
- “Redstart Systems Site Address” prints the address

Several Tasks Demo

Express Eric

Cap Fast speech recognition

1 Tab

Redstart Systems Site Address

1 Tab

Check it out Exclamation Mark

Window Close · No · Window Close

Collecting Information

Here's a Web task that's traditionally been difficult using speech – collecting information

- Speech selection commands that work across all programs coupled with a clipboard utility that leverages the power of speech
- Sort information as you gather it

Sorting As You Gather Demo

Redstart Systems Site

50 By 60

1 Down 3 Downs

Copy to List 1 File

2 Down

3rd Word 3 Words

Copy to List 2 File

Address Copy to List 1 File

List 1 File

List 2 File

Window Close Firefox Close

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Kimberly Patch

Kim@redstartsystems.com

617 325-3966

www.redstartsystems.com – click video button
and look at “Unprecedented” video

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