



Utter Command

Speech interface software that works the way your brain does

Kimberly Patch

kim@redstartsystems.com

www.redstartsystems.com

Key Concepts

- Make commands that follow the way the brain works
- Make commands **consistent** across programs
- Reduce the number of **steps** it takes to carry a given task

Key Complaints

- Don't know what to say; can't remember commands
- It's tiring to use speech commands
- Speech is slower than the keyboard and mouse

It doesn't have to be this way

Key Complaints

- Don't know what to say; can't remember commands
Solution: a structured grammar that follows the way the brain works
- It's tiring to use speech commands
Solution: intuitive commands; fewer commands
- Speech is slower than the keyboard and mouse
Solution: carry out multiple keyboard and mouse steps using a single speech command

Utter Command speech interface software

- Underpinned by a structured grammar that follows the way the brain uses language
- Commands are global – they work the same across all programs

Utter Command uses the type of language people naturally use in command-and-control situations:

Efficiently worded instruction

in a fast food kitchen

Two Fry

in a football huddle

Counter Trey Right

directing an airplane

Delta 265, Clear to Land, Runway 3-0

Terse vocabulary

- 253 command words, 97 of which are key names
- 60 command words needed for basic competency

UC Top 65 Command Words (plus numbers and labels)

All Caps	Insert	Speech	Paired words Before – After Befores – Afters Back – Forward Left – Right Lefts – Rights Line – Line Up Lines – Line Ups Max(imize) – Min(imize) On – Off Open – Close Top – Bottom Undo – Redo Up – Down Ups – Downs Word – Words
Another	Menu	Spell	
By	Message	This	
Cancel	Microphone	Touch	
Cap	New	Touch Twice	
Check	Nope	Tray 1-20	
Clear	Paste	Under	
Close	Screen	Volume	
Compound	Seconds	Win(dow)	
Copy	Short		
Cut	Site	<0-200>	
Font	Size	<1st-20th>	
Go		<screen labels>	
Graph			

Most Common Grammar Rules

- Eliminate synonyms
- Follow the way people naturally adjust language to fit a situation
- Follow the order of events

Common UC Commands

Speech On

Line Copy

3 Before

Window Close

3 Down

A concise vocabulary and standard order of events

- allows you to **directly address** objects on the screen (Window Close) rather than asking the computer to carry out the action (Close Window); this lowers cognitive load
- organizes commands in standard patterns, which makes them **easier to remember**
- encourages **habit**, which lowers cognitive load
- enables command **combinations**, which speeds everything up

Common Combined UC Commands

Speech On · Word Open

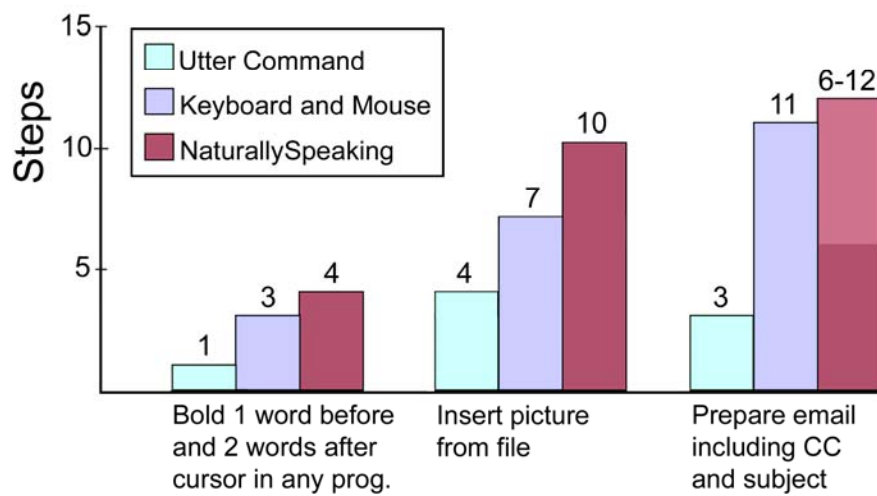
Line Copy to Word

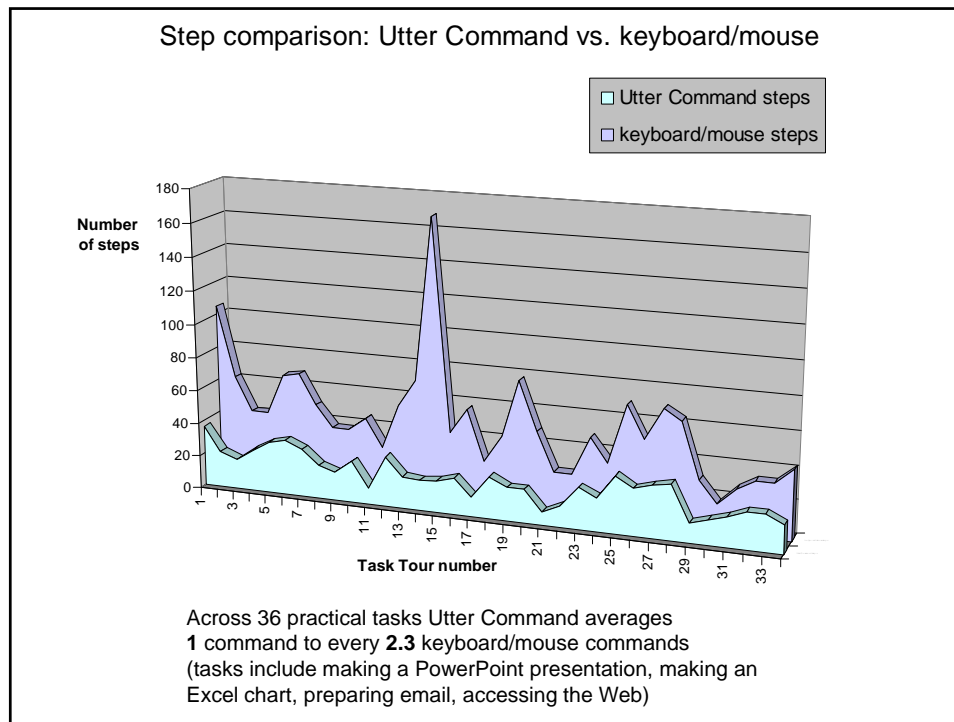
3 Before · 2 Before · Cut

Window Close · No

3 Down · Enter

Computer Command Steps





The Elements of Utter Command

- **System of commands** – consistent, concise, enables multiple steps in a single command
- **UC menu** – guide to everything else
- **Rulers** – single-step mouse control
- **UC List** – folder, file, website, nickname, keyword and reminder control
- **UC Clipboard** – text control
- **On-screen Guides** – reference, command, tour and custom guides

Utter Command learning materials

- **Common Commands** and **Visual** cheat sheets
- **Full Reference** – every command with brief explanation
- **Lessons** – every command explained with examples and tours
- **Task Tours** – self-guided tours - cross referenced
- **Every subsection is accessible on-screen using a single speech command**
- **On-screen guides** – commands, shortcuts, tours, custom guides for trainers and customers

Utter Command Demos

- Fast word processing: navigating words, characters and documents
- Fast menu access: any menu item in any program in a single comment
- Fast file, folder and website access: a single command gets you anywhere (UC List)
- Fast mouse control: a single command gets you anywhere (Rulers)
- Putting it all together and more



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www.redstartsystems.com - videos

www.redstartsystems.com/papers.html

Utter Command Demo

Writing, editing, inserting a picture, making an Excel table, doing a word count, preparing email, controlling the sound system, manipulating text and windows, accessing the Internet

Utter Command:

86 speech commands in **5** minutes.

Keyboard and mouse:

293 steps in more than **10** minutes.