

Plover, the Open Source Steno Engine

Thought to Text at 240 WPM

Who?

Mirabai KnightFounder



Joshua Lifton, PhD Cofounder



Hesky FisherLead Programmer



Plus input, testing, and code from the 199 members of the Plover Google Group

What Is Steno?





Phonetic-Mnemonic

240 WPM with 99.9% accuracy

Why Should You Care?

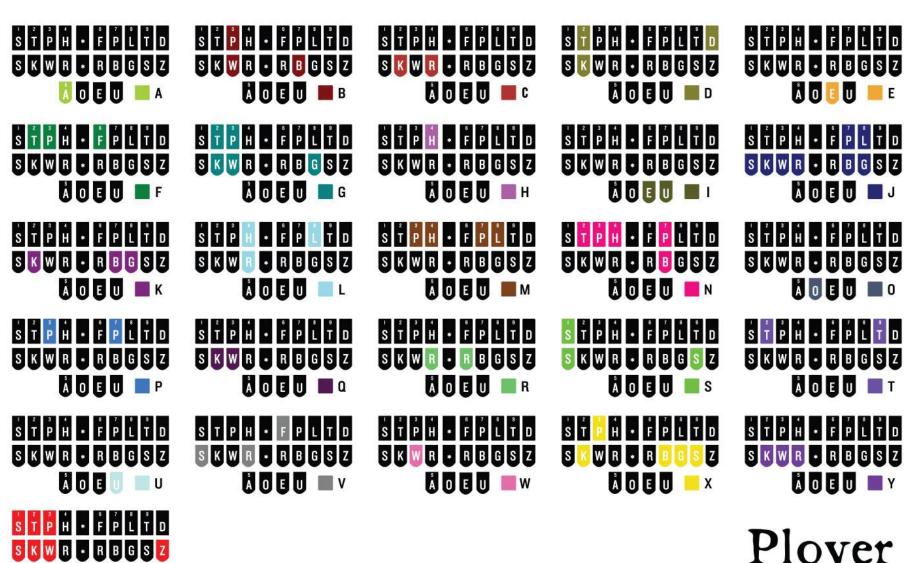




What Is Steno Good For?

- Speed
- Wearability
- Ergonomics
- Paying Work
- Accessibility
- Fluency and Efficiency of Text Entry

STENO ALPHABET

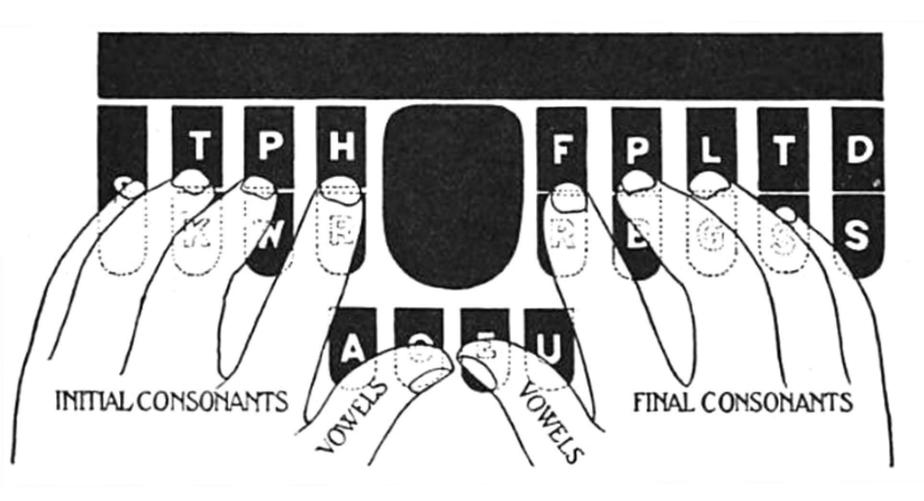


A O E U Z

Plover

http://ploversteno.org

22 keys



4,194,303 possible chords

How Does It Work?

- No spacebar
- Two-dimensional syllabic chords
- Most words can be written phonetically
- Each stenographer's dictionary is unique

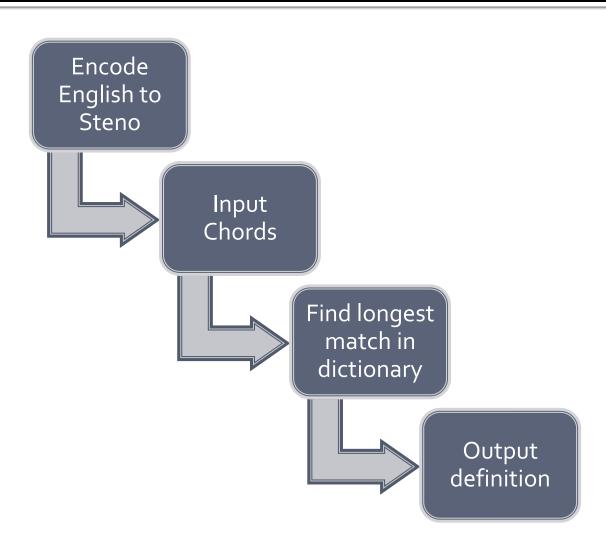


STRAPS

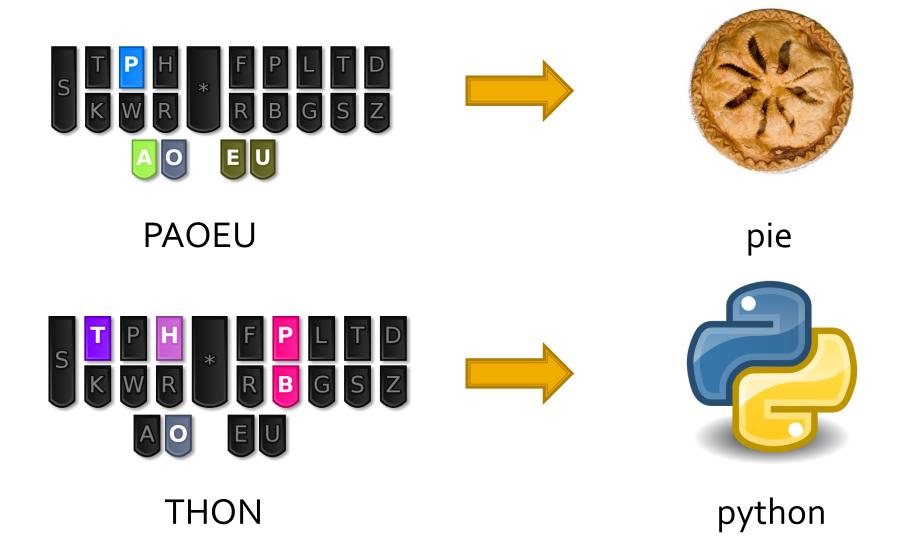


straps

Flow Diagram



Multisyllabic Words





DPLORBL → deplorable



PRIFRL — peripheral

```
original = raw_input("Enter a word:")
if original.isalpha():
    word = original.lower()
    first = word[0]
    print first
else:
    print "Not a word."
```

Using Plover With Python

QWERTY	STENO
143	54



QWERTY

STENO

b: go **B**ack one word

GLERCH: Launch browser and perform Google search on text in clipboard

q: reQord maQro?! QUARN: Cut highlighted text and append to prespecified bug-tracking document

The Altruistic Argument

- 35 million people with hearing loss in the US
- <2% know Sign Language</p>
- <400 Certified Captioners
- Average captioner age is 50
- 3 to 8 million people with speech disabilities

The Proprietary Model Is Broken

- Virtually all steno schools are for-profit
- Startup costs include \$1,000 student machine and \$500 hobbled software, plus ~\$12,000/year tuition
- Nationwide dropout rate is 85%
- Reaching 225 WPM can take 2 6 years

No Amateurs, No Future





Amateur	Professional
\$50 Ukulele	\$50,000 diamond-encrusted guitar
Free Music Lessons	\$60,000 degree from music school
Lots of Practice	No guarantee of employment

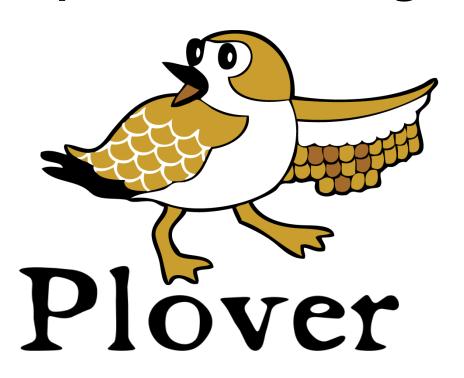


HOVER PLOVER

Plover Resources

Plover Wiki: http://ploversteno.org

- Fly
- Plover Aviary
- Plover Blog
- Plover Dojo
- Steno 101
- Steno Typer
- Steno Hero Alpha



But... But speech recognition!!

CRITERION	WINNER
Speed	Steno
Accuracy	Steno
Customizability	Steno
Portability	Voice
Learning Curve	Voice (beginner)/Steno (advanced)
Privacy	Steno
Determinism	Steno

http://stenoknight.com/speechrec