

**Explain Choice:**

- We've noticed that equal or similar commands are often in different positions across a lot of apps. Example: location of the "find" shortcut on some apps:
  - Firefox: top-right menu, option #5
  - Chrome: top-right menu, option #8
  - Office PDF reader: top-right menu, opens on the bottom, option #3
  - Wikipedia: bottom-middle shortcut
  - GitHub: doesn't exist
  - Nearly all desktop apps: CTRL + F
- Example 2 (making text bold)
  - Xiaomi Notes app: mid-right "T" button, select B on the left
  - Samsung Notes app: Text Style above the keyboard after selecting text
  - Office Word (Android): Leftmost button in the toolbar after selecting the text
  - Nearly all desktop apps: CTRL + B
- Clicking on the "ctrl key" and then on the keyboard is more comfortable than having to reach the usual top-right spot, especially when 1-handing the phone
- It would be useful if we could apply the desktop shortcuts we use on mobile devices

**Introduction and contextualization of the problem:**

- Touch-based devices do not support a unified and efficient command selection mechanism, unlike keyboard shortcuts on desktop PCs, but they could!
- SoftCuts (are appreciated by participants and) support rapid command selection with different devices and hand configurations.
- Some attempts were made, but not very well:
  - Microsoft Surface
  - Samsung tablets

**Main aspects (methods, results, ...) addressed in the paper:**

- 2 Experiments done:
  - Performance of Input Methods: which methods are the most accurate, faster and most comfortable, etc. in different situations, like one-handed, two-handed, phone, tablet, portrait, landscape
  - Usage of Input Methods: what input method do users prefer in different scenarios like sitting, standing and walking and different situations, like one-handed, two-handed, phone, tablet, portrait, landscape;
- Different types of inputs: //Sacar gifs do video
  - Once: 1 click for ctrl key and 1 for the command wanted;
  - Swipe: Touching the ctrl key and sliding the finger over the command wanted;
  - UM(User-Maintained): Holding the modifier key with one finger and selecting the command wanted with another finger;

**Present the most important conclusions (also in the presenter's opinion):**

- Overall, Once is the best input method, no matter the situation

- User Maintained input method as a viable Tablet input method
- SoftCuts in real world:
  - Can use all 3 input methods, with no interference with each other;
  - No need to memorize the mapping between hotkeys and commands, since SoftCuts displays the name of the commands;
  - SoftCuts uses previously knowledge from physical keyboards
  - Low cost: Only needs to implement Ctrl/Command key in keyboard
  - Keyboard-less scenarios: implement button always displayed so that users could use commands without having the soft keyboard first;

**Include all the bibliography and sites used to prepare the presentation (last slide):**

Paper: <https://dl.acm.org/doi/10.1145/3379503.3403552>

Video: [https://www.youtube.com/watch?v=Fs\\_oXUKZ4uU](https://www.youtube.com/watch?v=Fs_oXUKZ4uU)