

# P5.js Web Editor Research

## Takeaways

1. Very likely to have:
  - a. Caret dragger
  - b. Symbol Strip (beginners)
  - c. Text Actions Strip
2. File Actions: all over the place (strip, menu, header)
3. p5 specific: preview + code
  - a. Avoid too much info on screen
4. Horizontal Split > Paging > Vertical Split
5. Hard to know beginner-specific features
6. More useful on mobile than desktop
  - a. Autocomplete
  - b. File Tabs
7. Hypotheses:
  - a. Beginners: Clicking > Key Combination
  - b. File Actions are used less than editor commands

## Brainstorm

Ideas to make implementation simpler / easier / better (?)

- MVP File Actions: "CTRL" button + current key combinations?
  - Possible? Ergonomic? Works on iOS?
  - Fast to implement (doesn't need icons for every action)
  - Strip by default (can disable in menu), point to other keyboards
- Canvas + Editor
  - [Mini Floating Canvas](#) + Fullscreen
  - Horizontal Split
  - Run = Navigate (preview + terminal)
  - Hold / Double-tap play for auto-refresh?
- Future:
  - Customization (what actions are in the custom footer bar, etc)

## Notes

Legend:

- Awesome feature but how do you implement it?
- Frequent feature
- Important for all editors / mobile applications

Navigating large texts is difficult (caret)

## Editors

Notable features from each researched editor

### 1. SPCK

- Drop caret dragger
- Symbol strip ((), if, =, !, &&, :, ., ")
- Action Strip (static)
  - Double-stacked
  - Paging
  - Arrows
  - Tab
- Header menu
  - Sandwich
  - Search (find in page)
  - Run (= Navigate)
- Auto-indent
- Terminal output (+ copy output button)
- Change detection indication (dot)

### 2. Acode

- File Tabs
- Header menu
  - Sandwich
    - Explorer
  - Edit file
  - Run (= Navigate)
  - More:** New File, Save, Save As, Open File, Open Folder, Open Recent, Console, Github, FTP, Settings, Help
  - Action Strip
    - Double-stacked
      - Two menus
      - Editor Functions (save, shift, tab, find, save)
      - Arrows
      - Move/Copy
  - (G) Change detection indication
  - (G) Autocomplete

viii. (G) Command Overlay

1. Commands + Shortcuts

3. Droidedit

a. Drop caret dragger

b. Action Strip

- i. File Ops
- ii. Undo + Redo
- iii. Find
- iv. Save
- v. Number Strip

4. **Enlightened:** Not a good reference for us

5. **DCoder:**

a. Header

- i. Sandwich
- ii. More

b. Bottom Terminal (cool)

c. Action bar (on edit)

- i. Floating Undo + Redo
- ii. tab < > { } ( ) "
- iii. Run

d. Good dialogs for file creation + save name