In-Script Non-Visual Variant Discovery Analysis

Latin GP Member: Dennis Tan

# Diacritics Evaluation

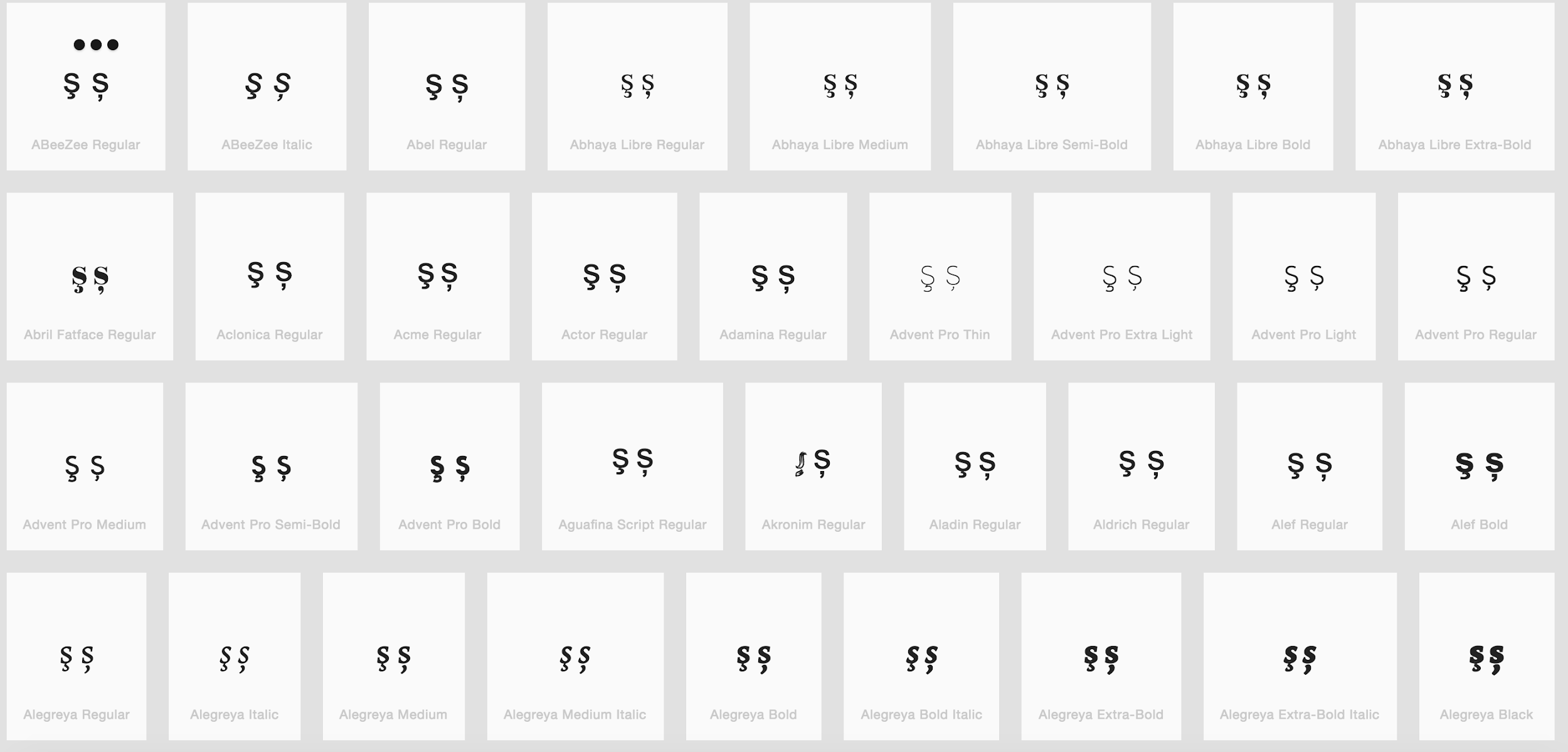
Diacritics analyzed: Combining Cedilla (Below), Ogonek and Comma Below

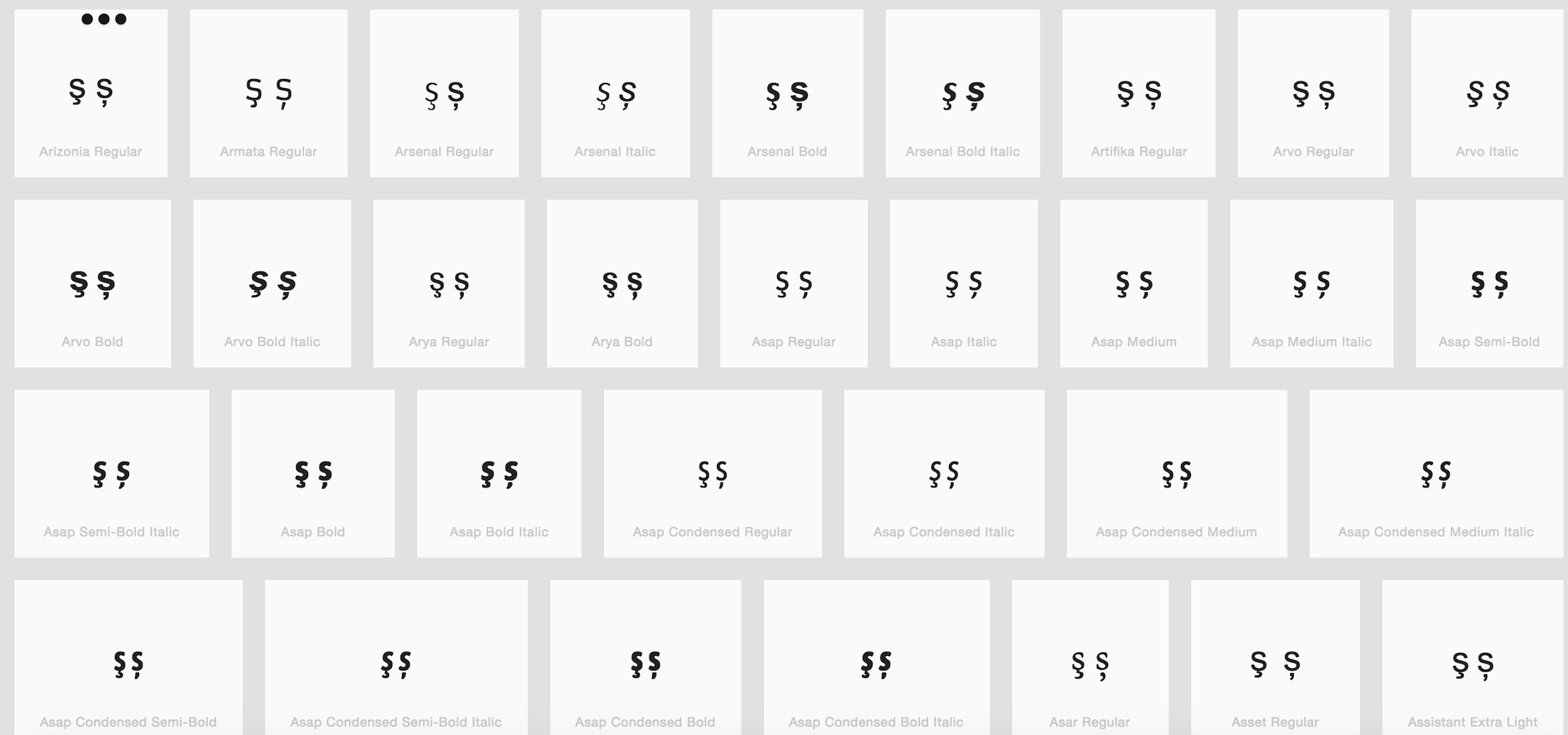
Code Points Analyzed:

|  |  |  |
| --- | --- | --- |
| **Code Points** | **Glyph** | **Name** |
| 006D 0327 | m̧ | Letter M with Combining Cedilla |
| 006F 0327 | o̧ | Letter O with Combining Cedilla |
| 00E7 | ç | Letter C with Cedilla |
| 0105 | ą | Letter A with Ogonek |
| 0119 | ę | Letter E with Ogonek |
| 012F | į | Letter I with Ogonek |
| 0137 | ķ | Letter K with Cedilla |
| 013C | ļ | Letter L with Cedilla |
| 0146 | ņ | Letter N with Cedilla |
| 015F | ş | Letter S with Cedilla |
| 0173 | ų | Letter U with Ogonek |
| 0219 | ș | Letter S with Comma Below |
| 021B | ț | Letter T with Comma Below |

Findings:

* The representations of the Cedilla and the Comma Below in Letter S are distinguishable in a number of fonts (see pictures below); in a large number of fonts, the two diacritics are consistently different.
* No other point base character (except for Letter S) uses two different diacritics (i.e., Letter M only exists with a Combining Cedilla, but not with Ogonek or Comma Below).





# Base Character Evaluation

Code Points Analyzed:

|  |  |  |
| --- | --- | --- |
| **Code Points** | **Glyph** | **Name** |
| 0065 | e | Letter E |
| 025B | ɛ | Letter Open E |

Glyph Representations per <https://wordmark.it/> :

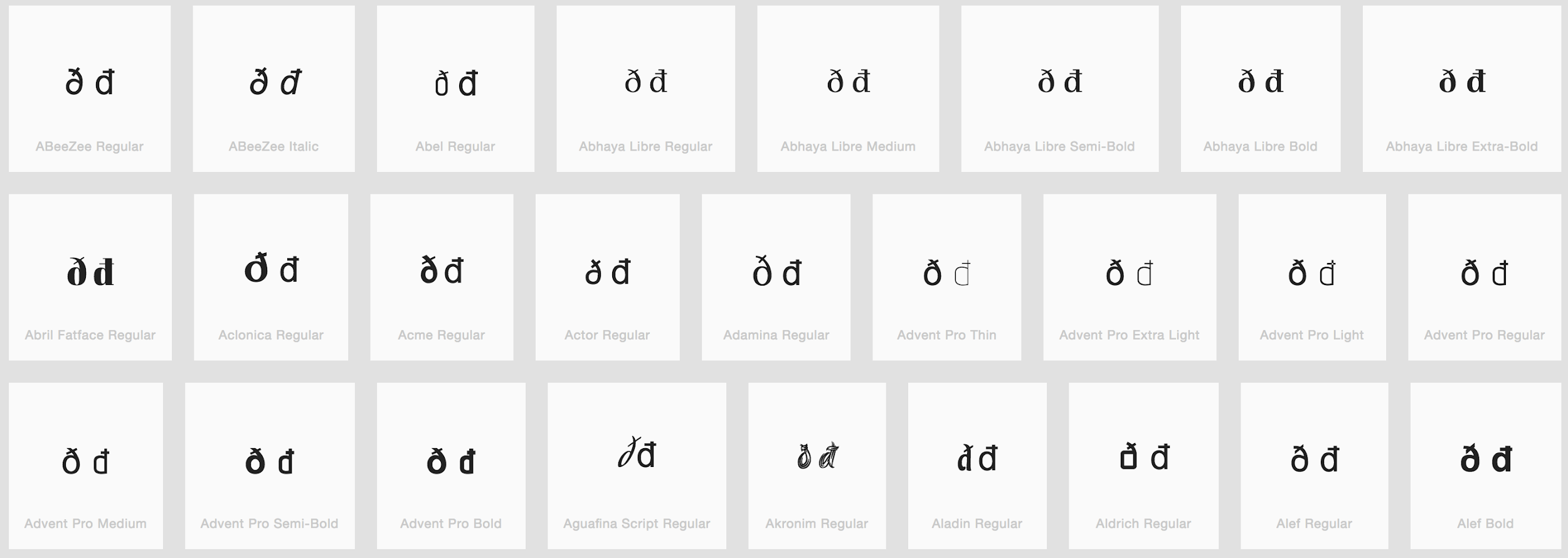


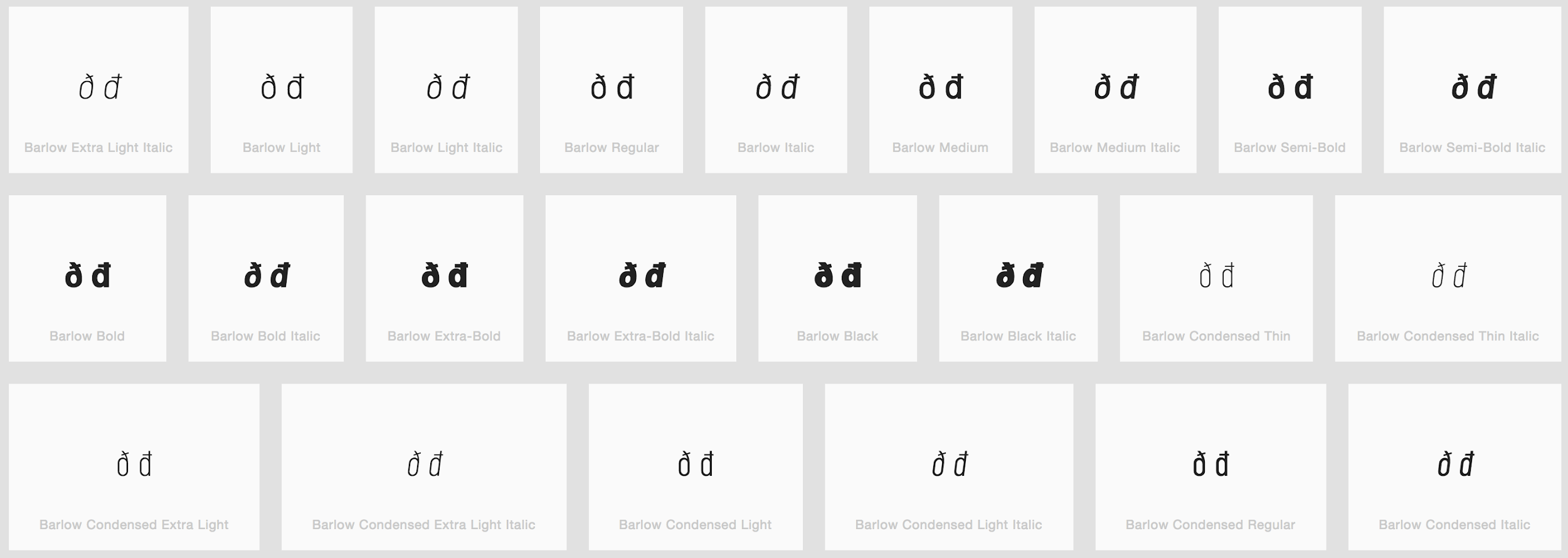
Findings:

* Glyphs are distinguishable
* In a large number of fonts, the two letters are consistently different.

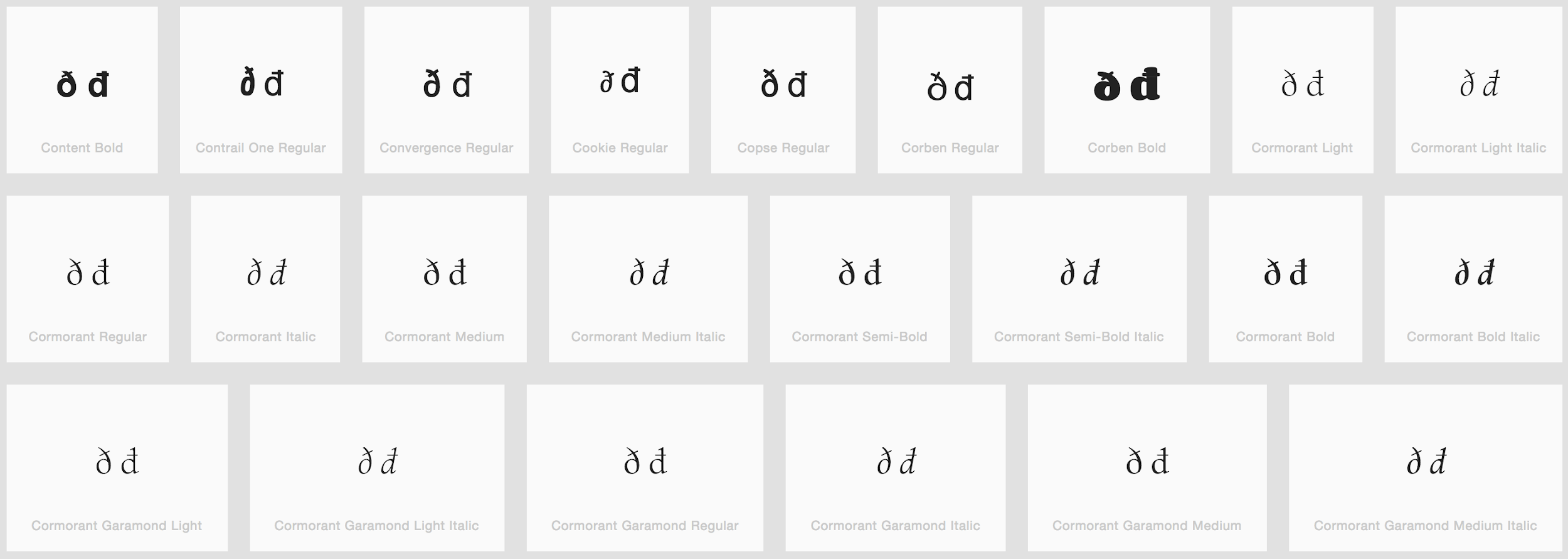
### Letter Eth versus Letter D with Stroke

|  |  |  |
| --- | --- | --- |
| **Code Points** | **Glyph** | **Name** |
| 00F0 | ð | Letter Eth |
| 0111 | đ | Letter D with Stroke |



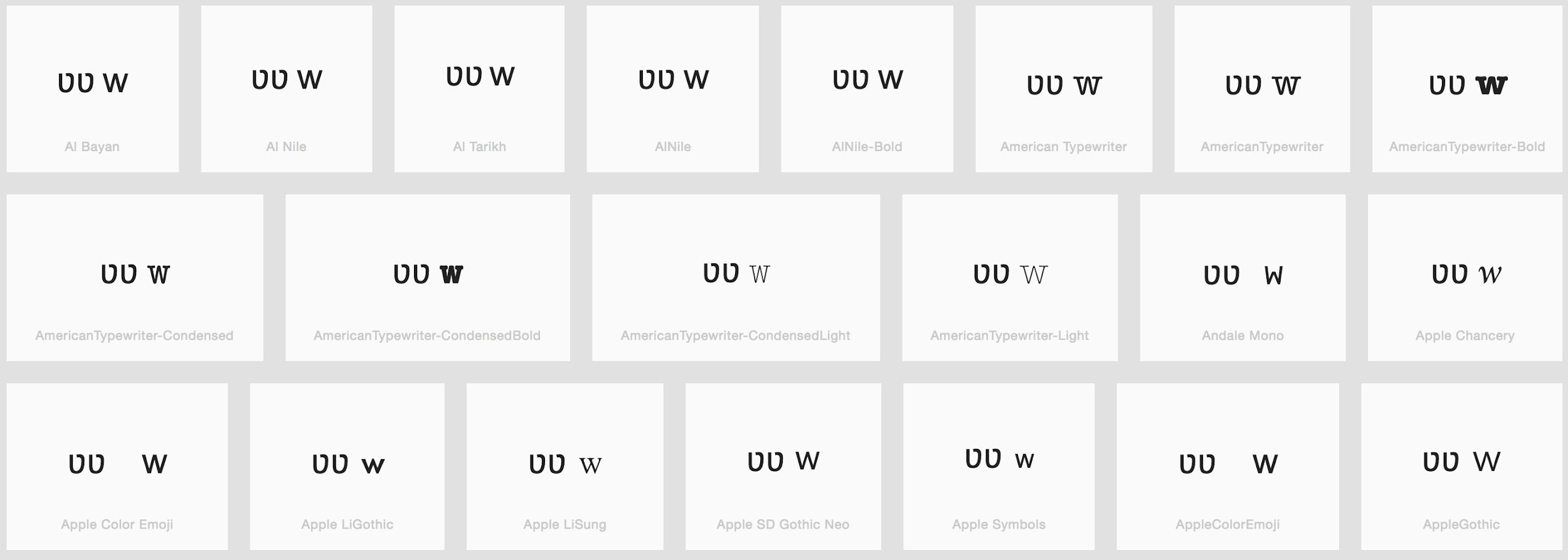


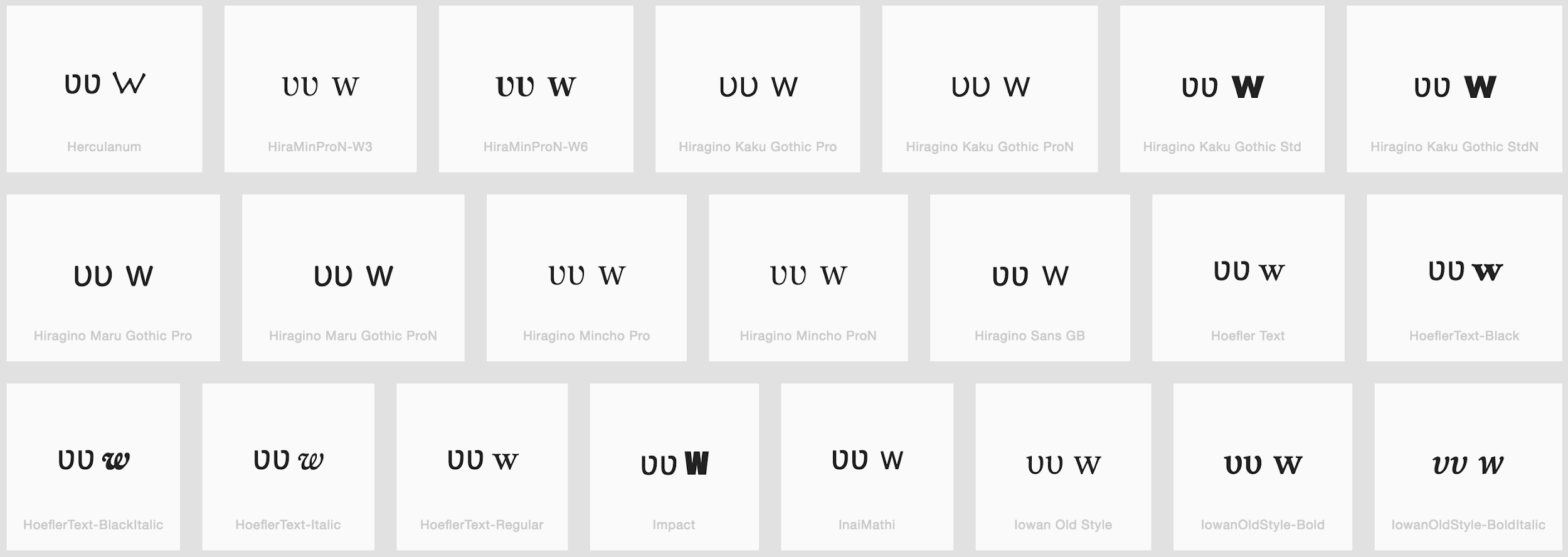
Findings: The two letters are consistently rendered with their distinguishable features.

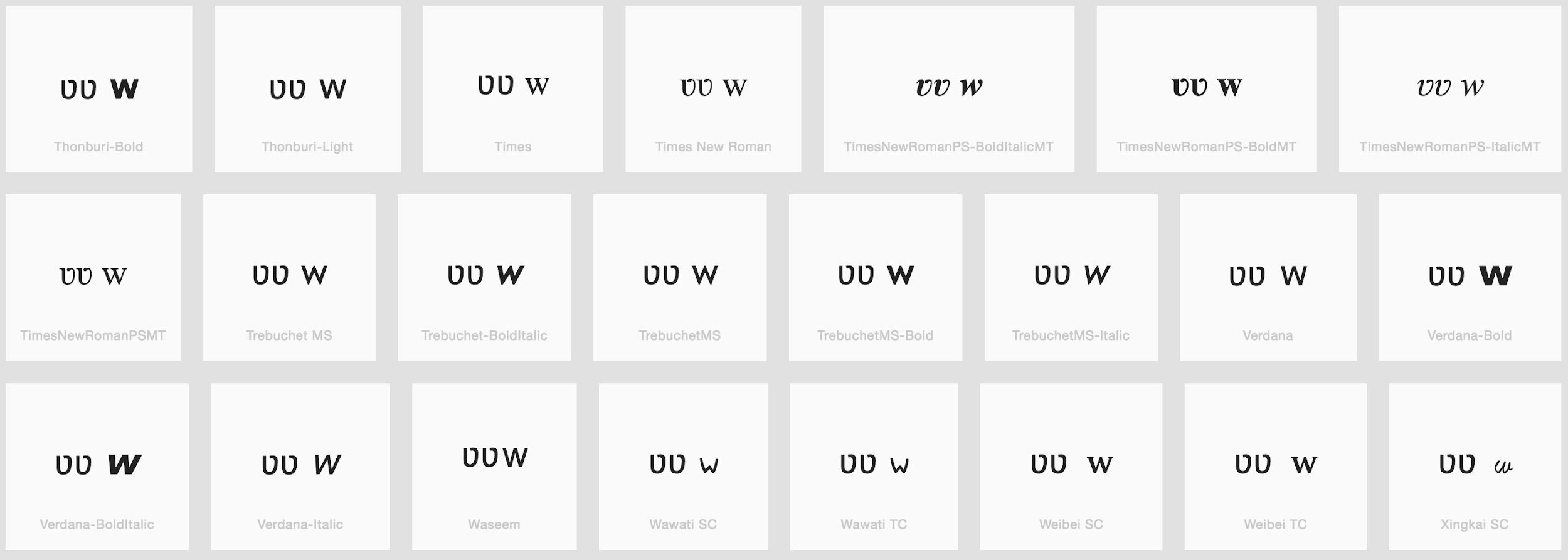


### Sequence of two Letter V with Hook versus Letter W

|  |  |  |
| --- | --- | --- |
| **Code Points** | **Glyph** | **Name** |
| 028B 028B | ʋʋ | Letter V with Hook (x2) |
| 0077 | w | Letter W |





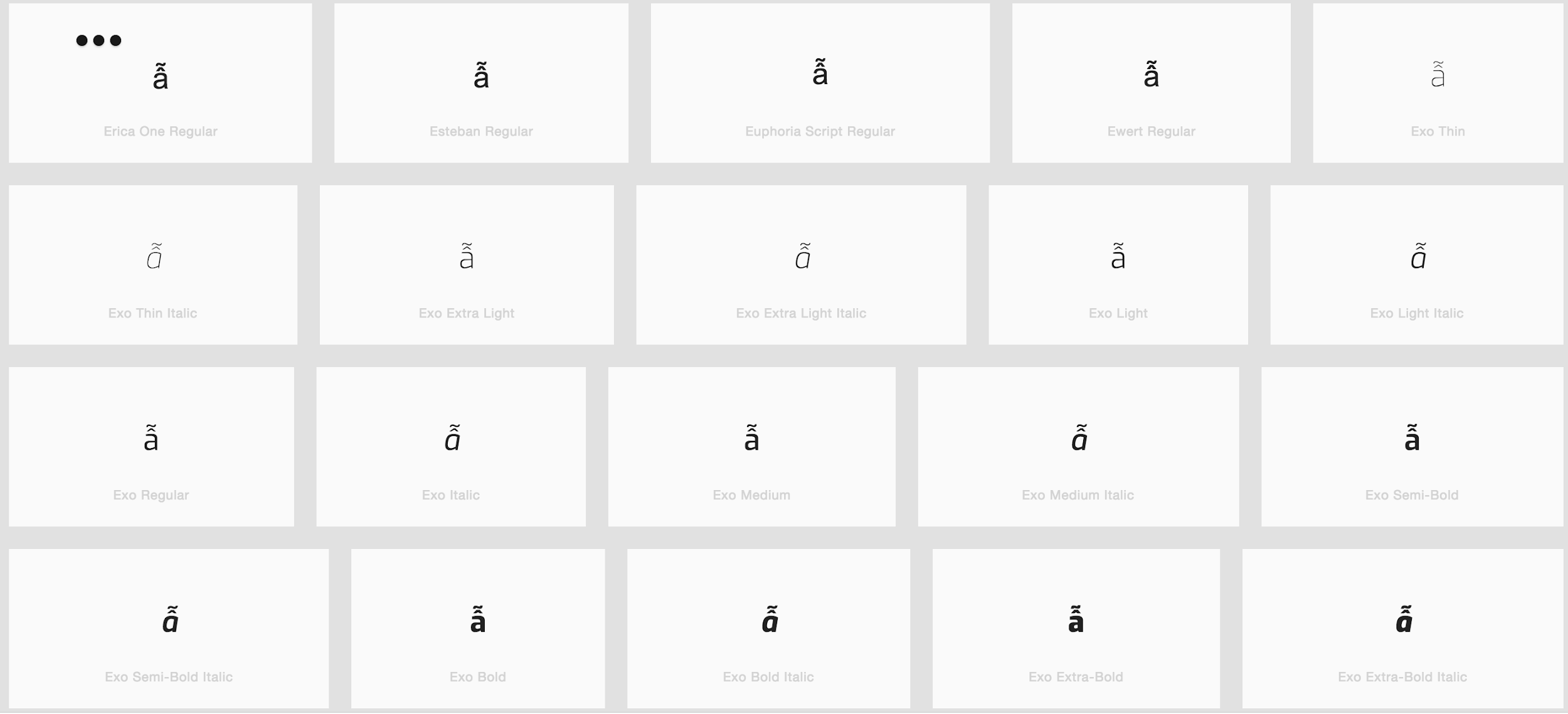


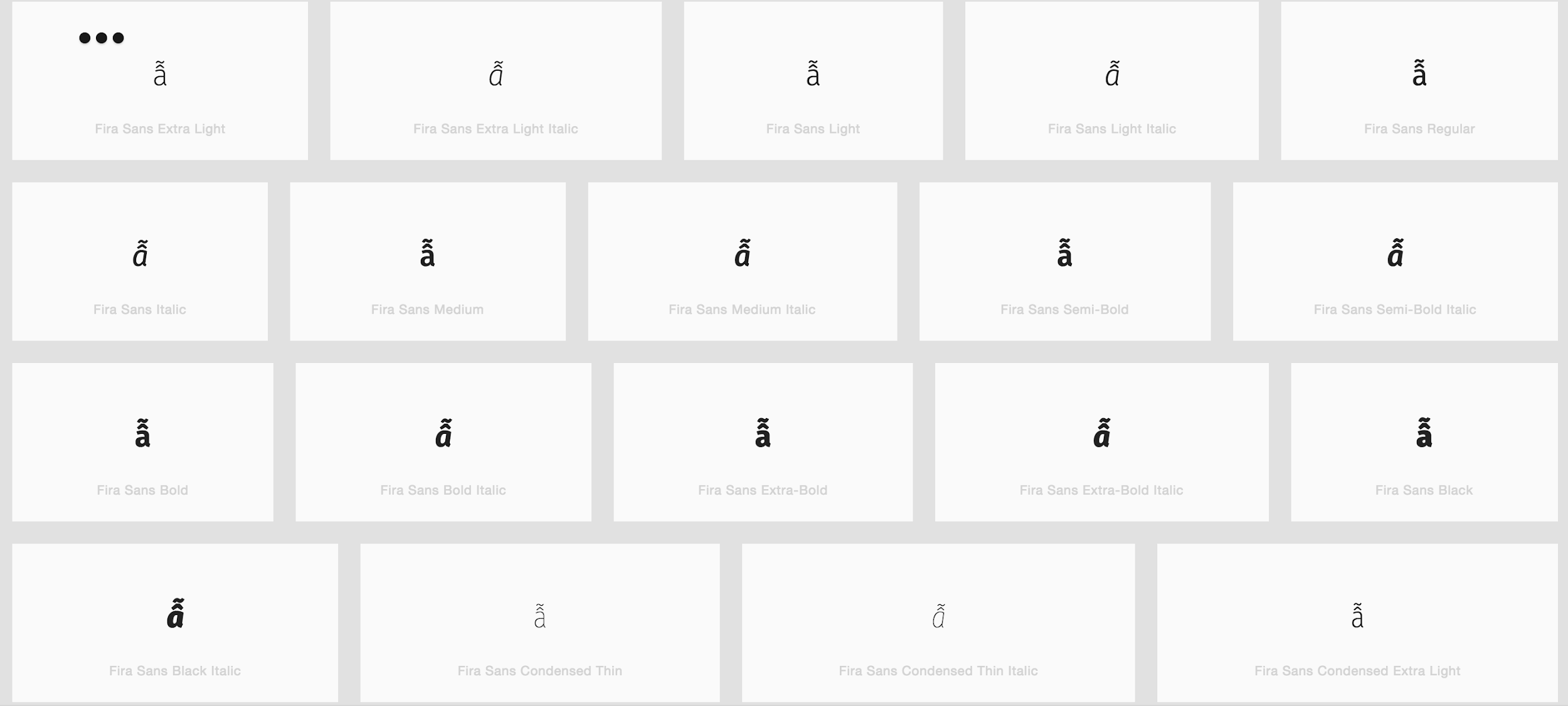
Finding: Sequence of two Letters V with Hook is different than Letter W

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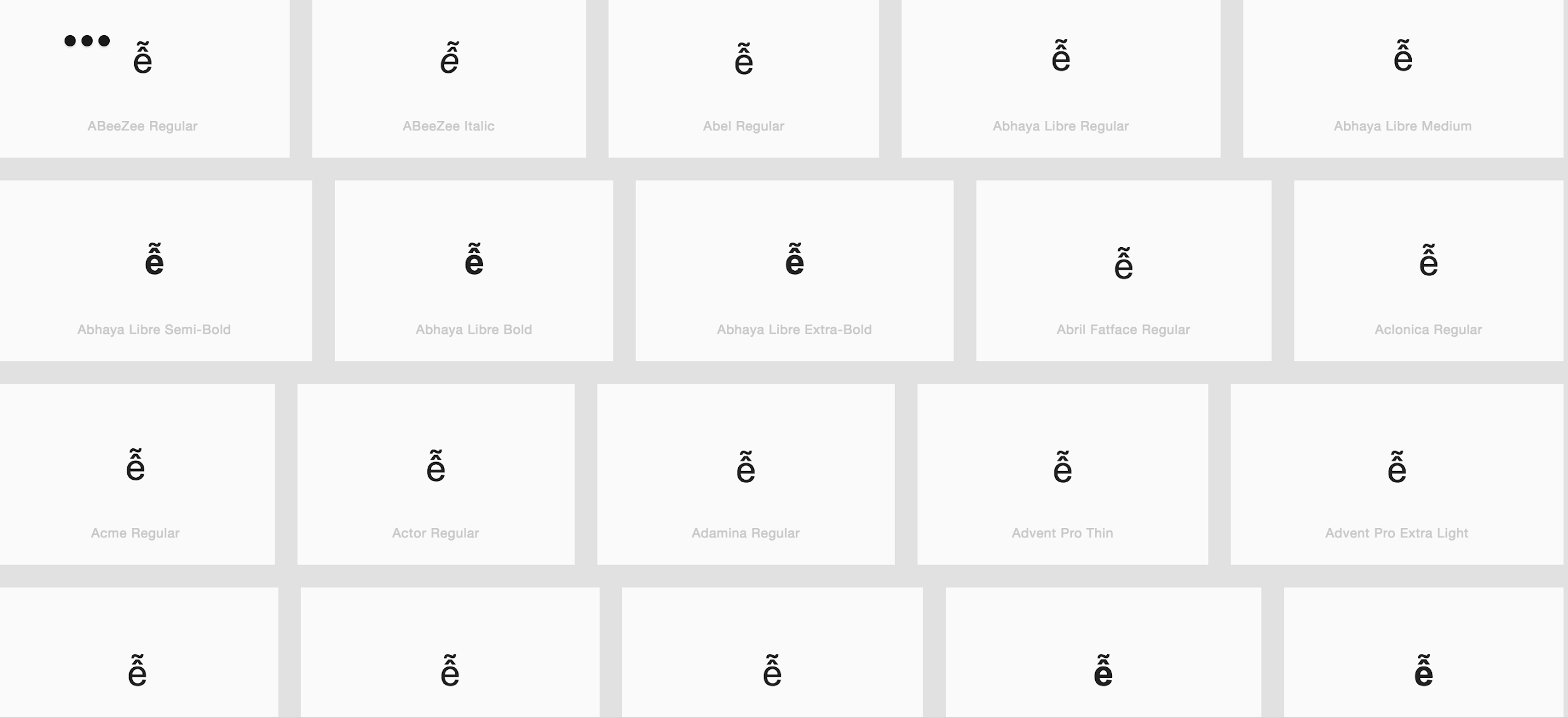
# Diacritics Stacking Evaluation

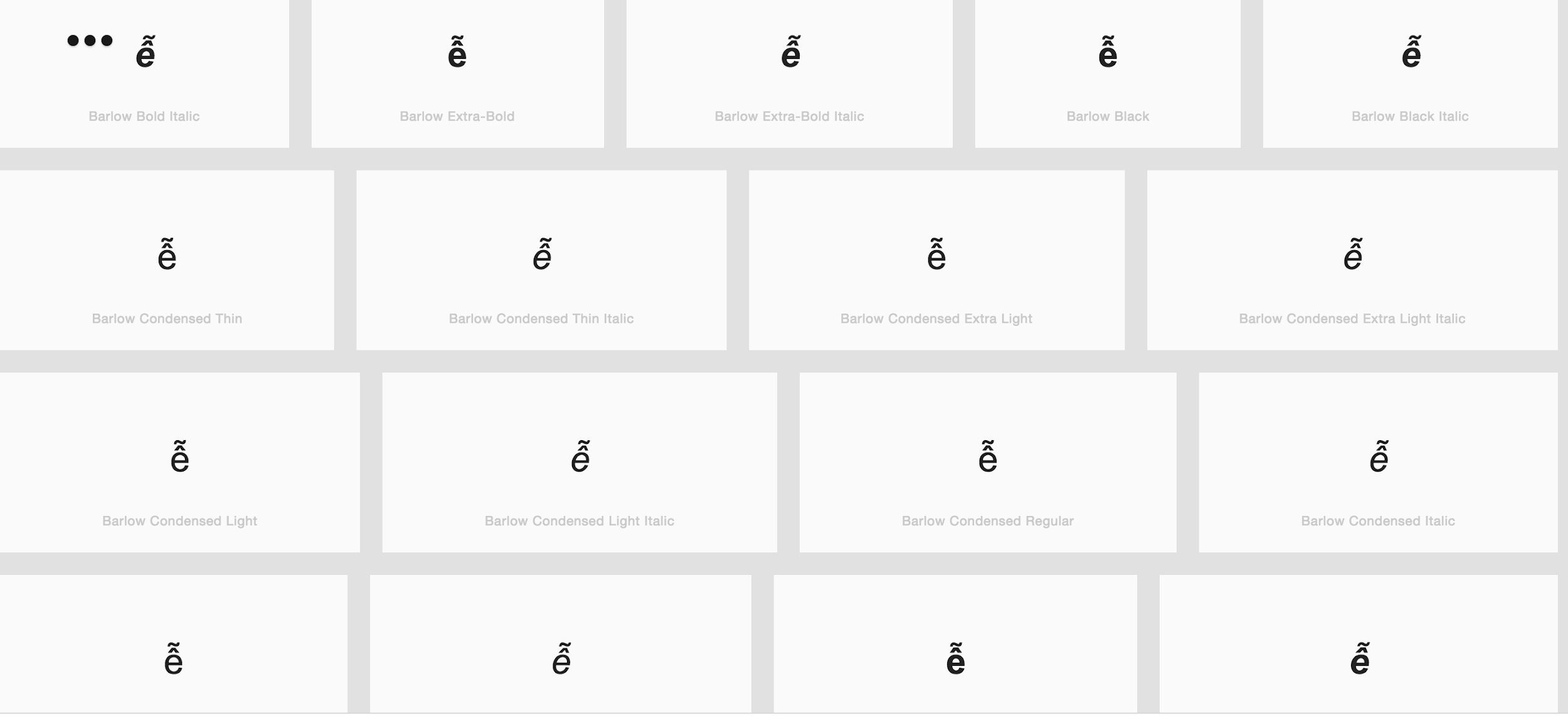
Code Point: **U+1EAB (ẫ) Letter A with Circumflex and Tilde**



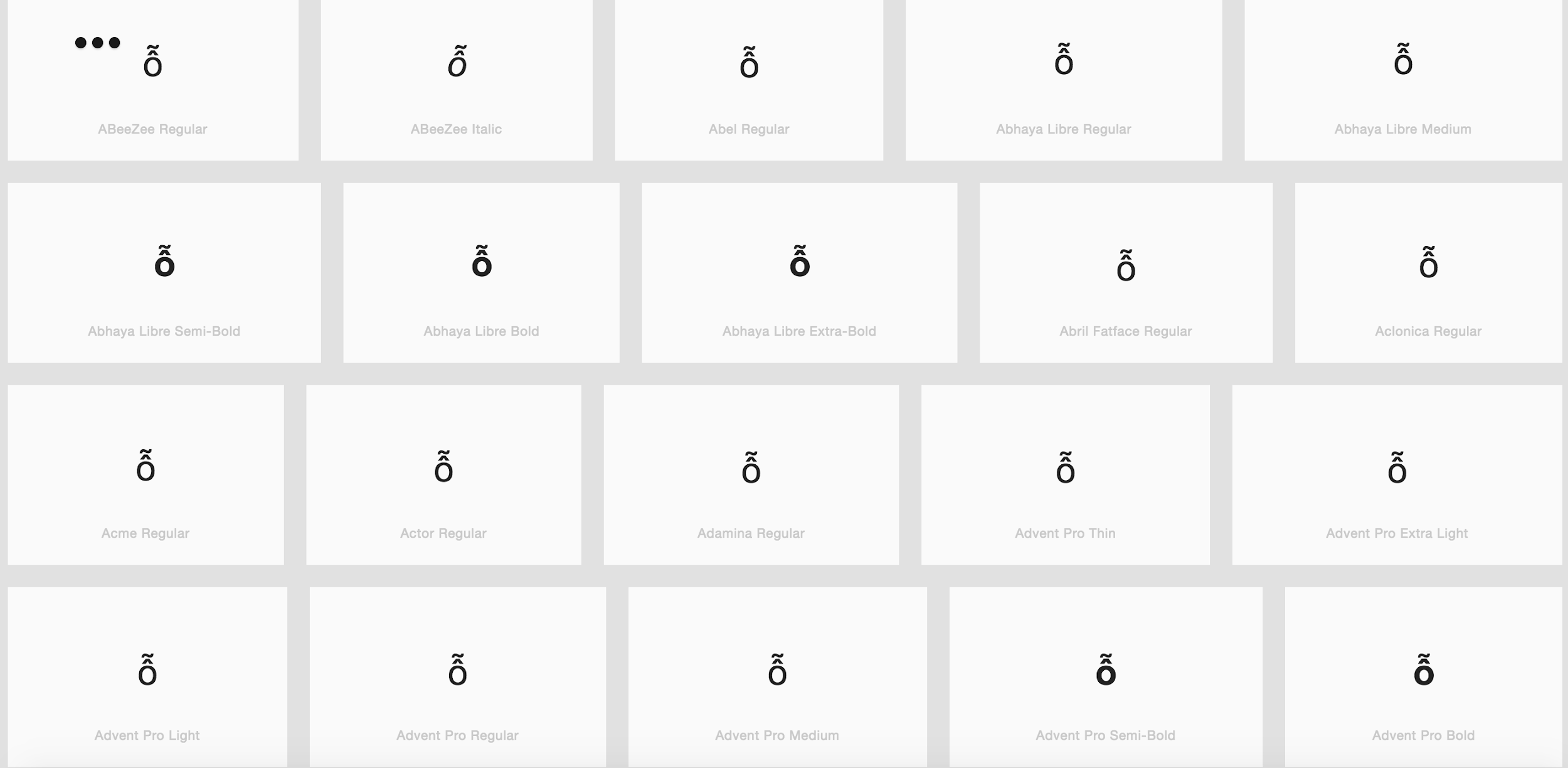


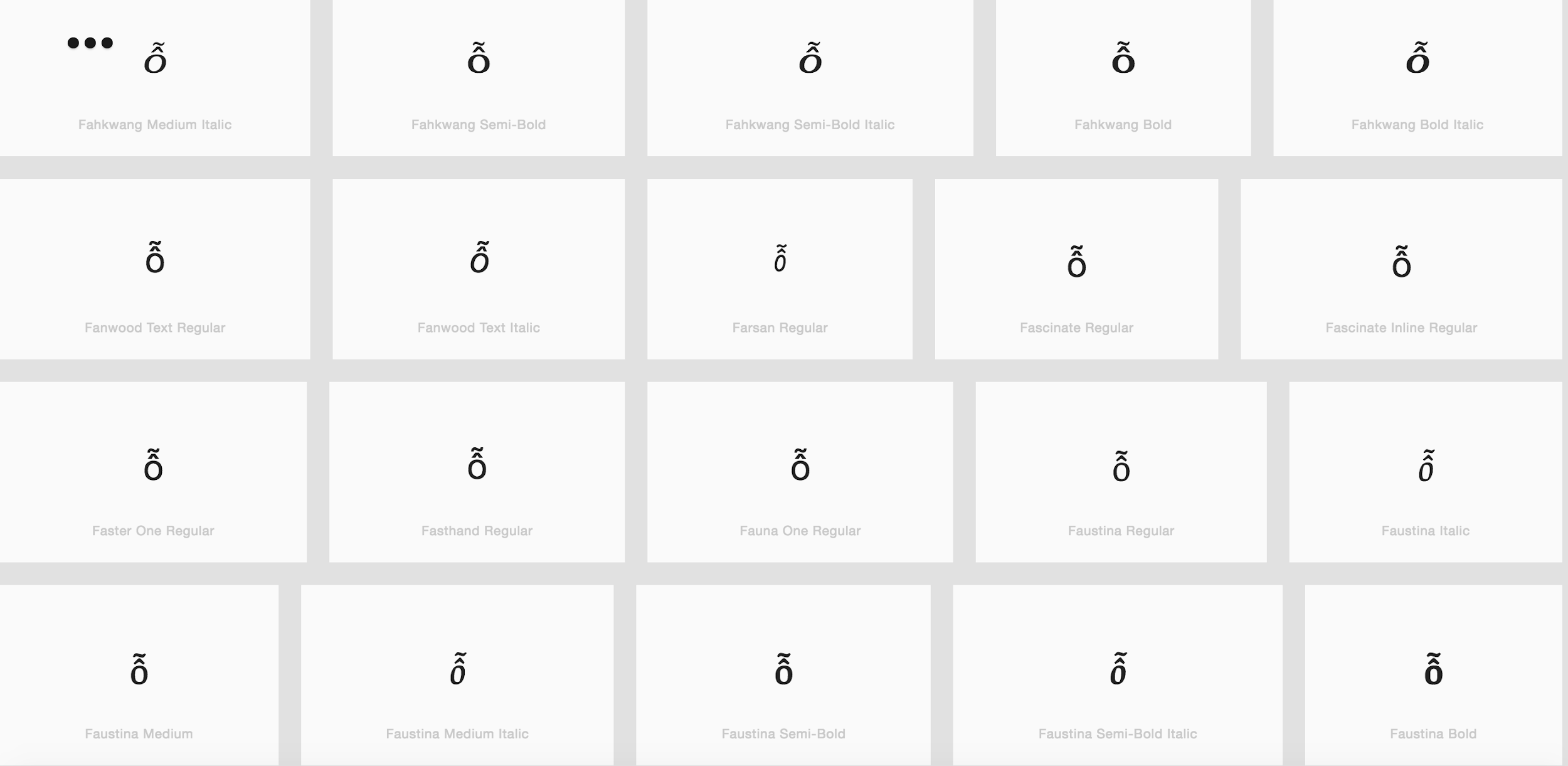
Code Point: **U+1EC5 (ễ) Letter E with Circumflex and Tilde**

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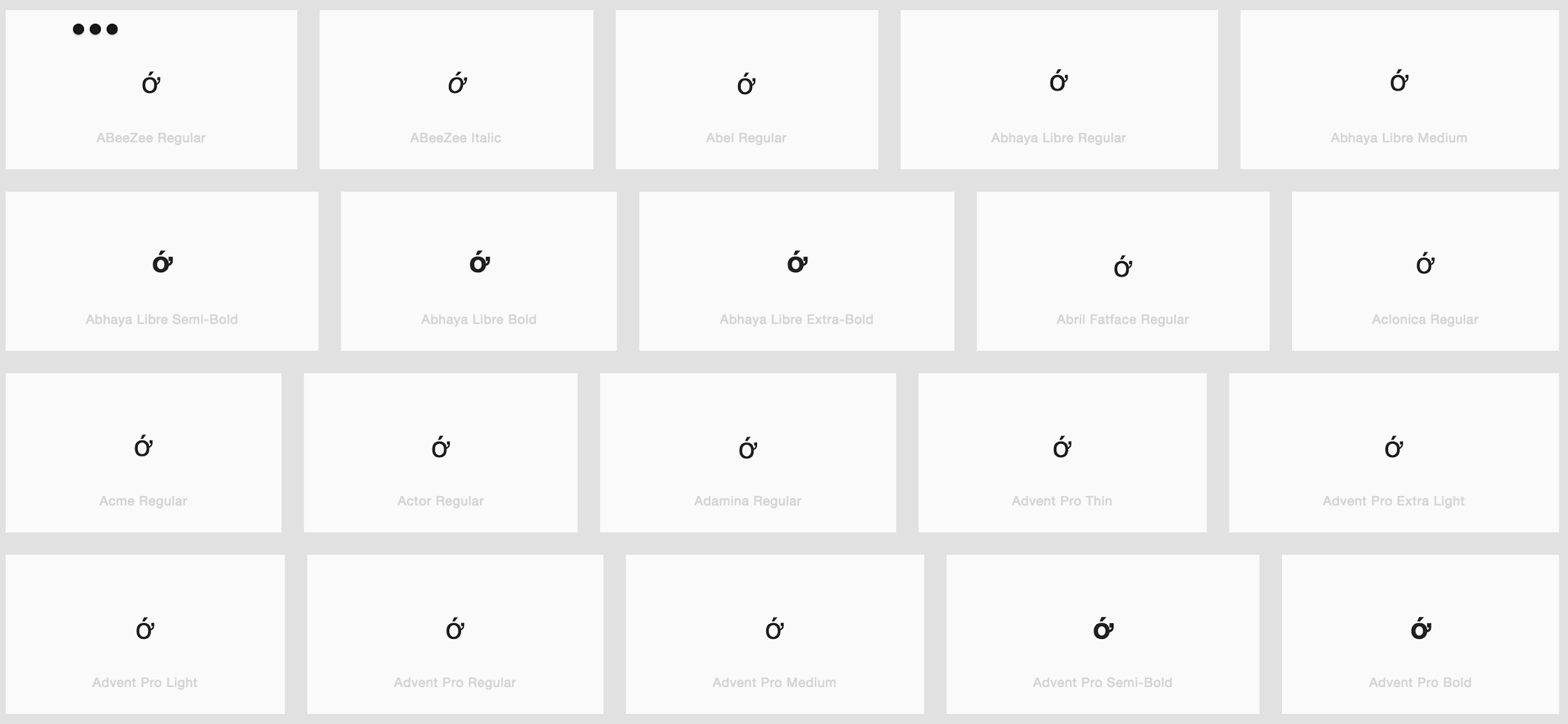


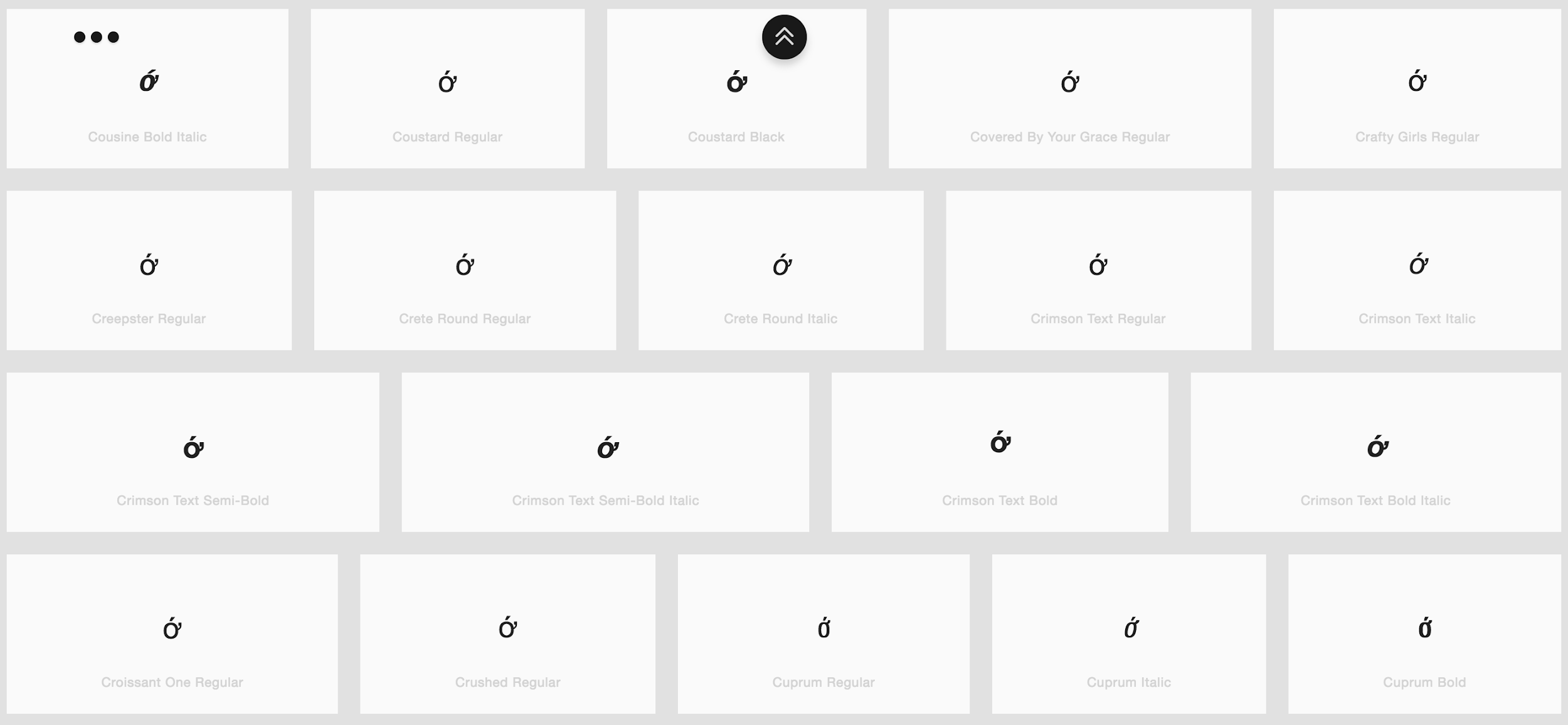
Code Point: **U+1ED7 (ỗ) Letter O with Circumflex and Tilde**



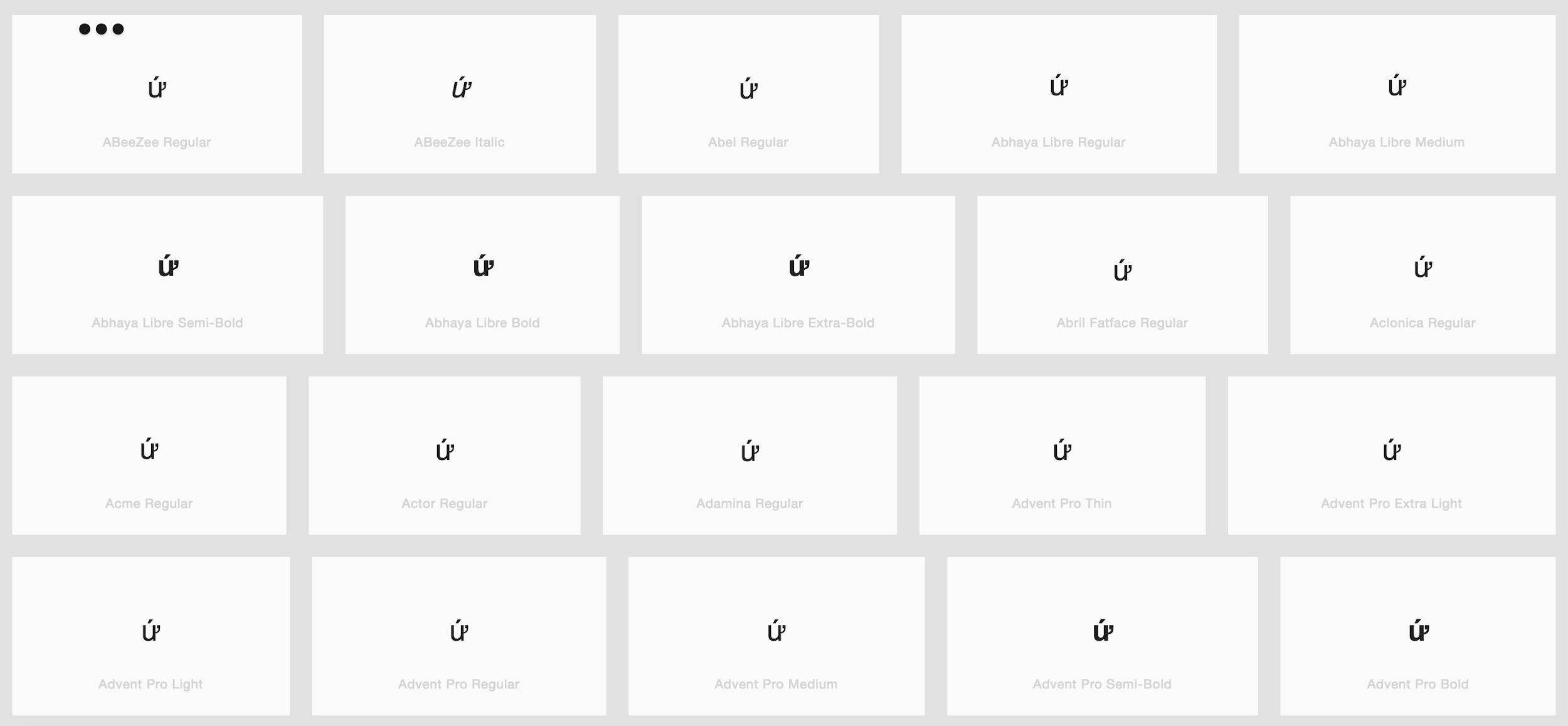


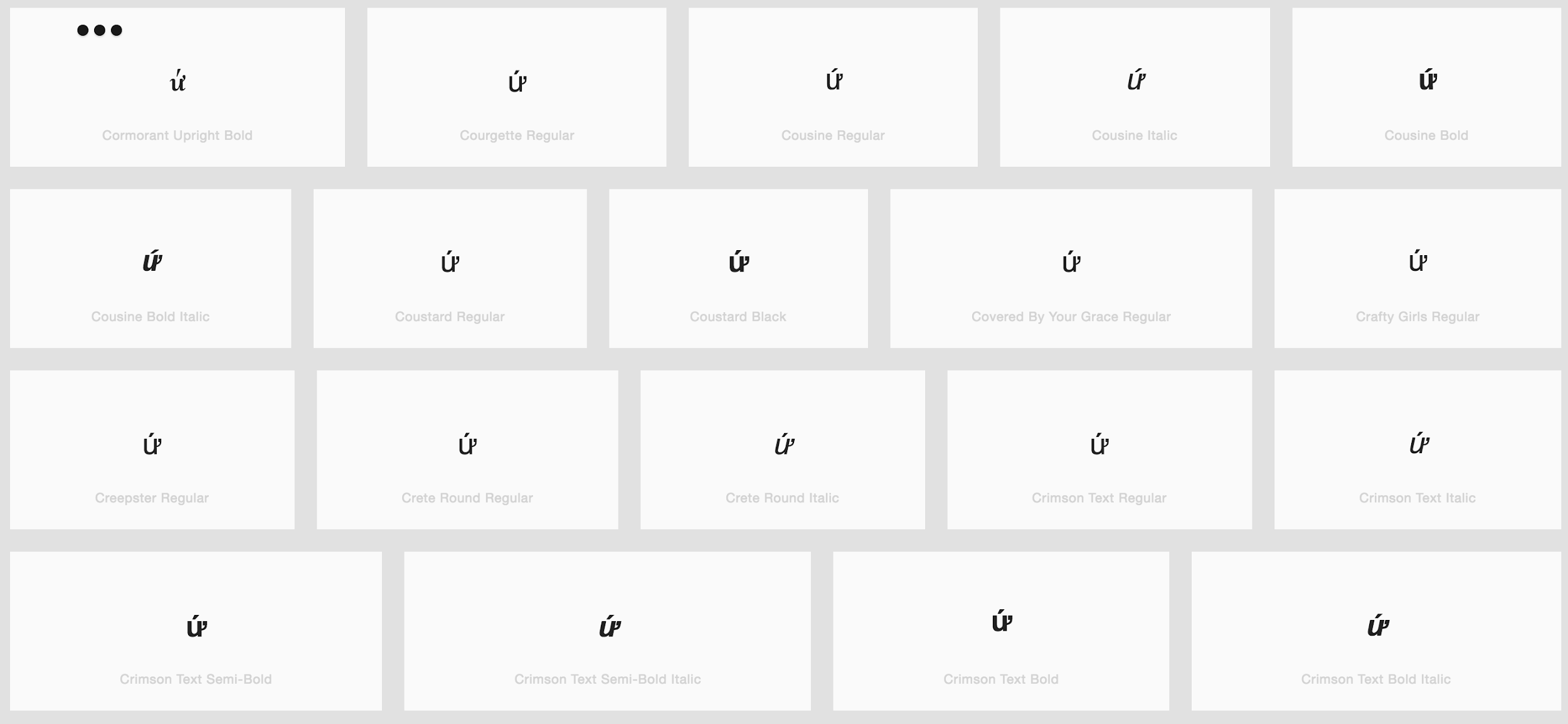
Code Point: **U+1EDB (ớ) Letter O with Horn and Acute**





Code Point: **U+1EE9 (ứ) Letter U with Horn and Acute**





Finding: Diacritics are rendered properly in a consistent manner