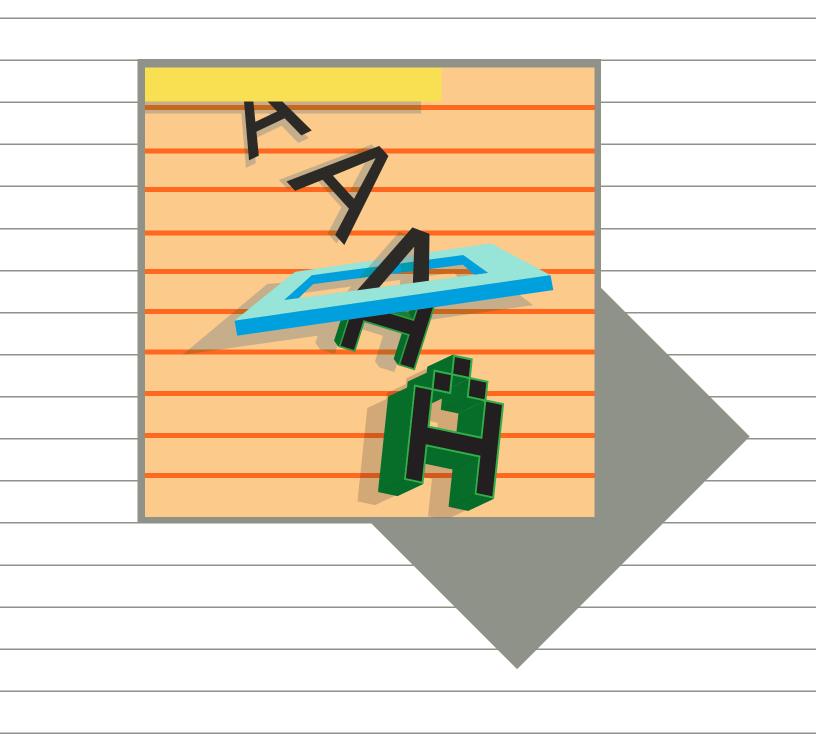
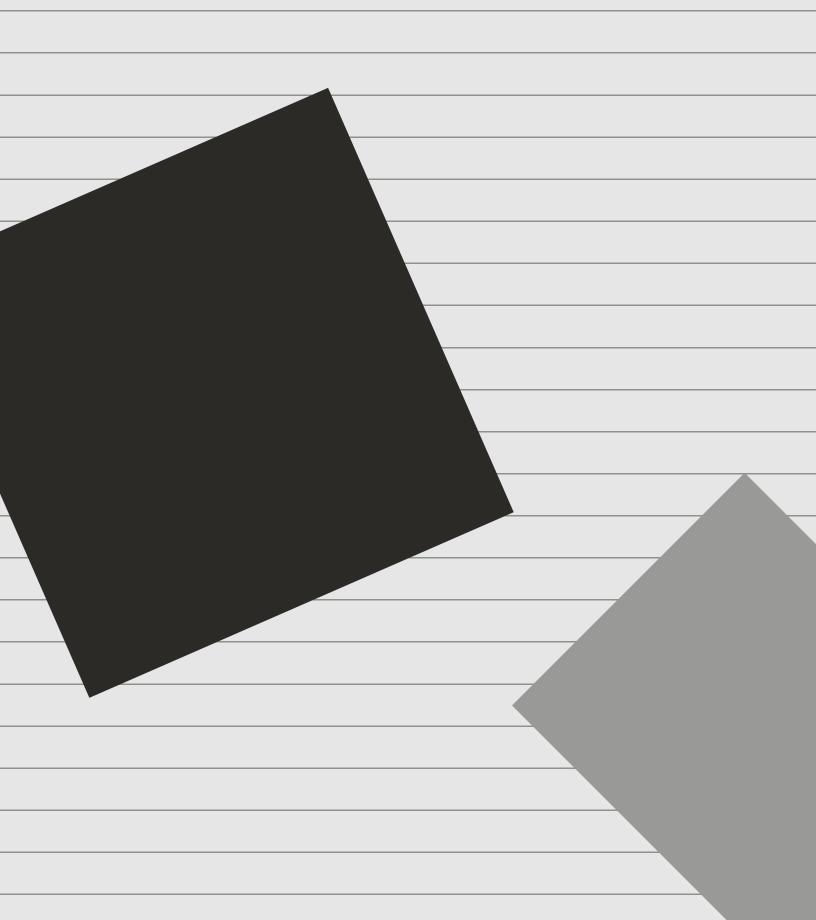
OpenType Font Collection A Legacy Computing Typeface



Apple II

OpenType Font Collection A Legacy Computing Typeface



Apple II

OpenType Font Collection

A Legacy Computing Typeface

Apple II Pro
Apple II Neg Pro
Apple II Alt Pro
Apple II Alt Neg Pro

Problems? Solutions!





World's Largest Apple User Group – *Since 1978*

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1 Introduction

What is OpenType?

Developed jointly by Adobe and Microsoft, OpenType is a highly versatile modern font file format that represents a significant advance in type functionality on Apple Mac and Windows based computers.

Advantages

The three major groundbreaking characteristics of OpenType fonts are their multi-platform support, expanded character set, and glyph substitution. Multi-platform support means that an OpenType font will run on both the Mac and Windows platforms.

This is a real convenience when your office uses both platforms or you use a PC at work and a Mac at home (or vice versa).

Expanded character set refers to the fact that OpenType fonts have the capacity to contain thousands of characters, as opposed to the 256-character capacity of the earlier Type 1 and TrueType fonts.

Glyph substitution refers to the built-in intelligence some OpenType fonts have that enables them to 'know' when to insert situational glyphs including certain ligatures, swashes, or other special characters. For instance, some swash characters are intended to be used only at the beginning or end of a word. An OpenType font with this information programmed into it will only insert them in these instances when using a supporting application such as Adobe InDesign, Illustrator and Photoshop.

File Type

OpenType ".otf" fonts are compact single-file cross-platform fonts, which can have extended language support based on Unicode, and enhanced typographic layout features.

www.adobe.com/type/opentype



OpenType Features

Apple II Pro and Apple II Alt Pro take full advantage of OpenType default features plus many additional custom stylistic sets.

Default Features

All OpenType features deal with the replacement of characters. It always comes down to the same thing: substitute a single character or a sequence of characters by another character. The difference can be as subtle as a slightly longer or shorter descender, or as distinctive as a decorative swash or something totally different like MouseText.

These alternates can fall under the OpenType Default Category of swash characters, contextual, stylistic or titling alternates, or discretionary ligatures, and can offer options to vary the overall look, personality, and sometimes legibility of a typeface. In addition, they can be combined and randomly substituted for the default character to create a more natural, less repetitive flow, which can be desirable in handwriting, calligraphic, and script fonts.

Custom Stylistic Sets

Stylistic sets are custom OpenType features that can vary from font to font, each makes it easier to use a font's alternate characters. Instead of leaving it to the user to manually replace every incidence of a character with a desired alternate. A stylistic set allows users to select an entire range of text, and apply this one kind of substitution. Stylistic sets are available in most modern design software.

Different fonts may contain different stylistic sets anywhere from one to 20 sets of alternates. Both Apple II Pro and Apple II Alt Pro contain several stylistic sets.

www.opentypecookbook.com

Symbols for Legacy Computing

Version 13.0 of the Unicode Standard, released March 2020, includes many (but not all) of the MouseText characters in the Symbols for Legacy Computing block. Those that are, can be found in Apple II Pro and Apple II Alt Pro corresponding to the correct Unicode.

www.unicode.org



Enable OpenType Features

Apple Applications

All native Apple applications including Pages, Keynote, Numbers and TextEdit support OpenType features. First you need to show the **Fonts** window which can be found via the **Format menu** or by using the keyboard shortcut **CMD+T**. Then click the little gear icon button and choose **Typography**, a list of available features will be shown.

Adobe Photoshop

In Photoshop, the OpenType features can be found in the **Character panel** which is accessed via the **Window menu**. There are some handy shortcuts in the main panel or you can access a list via the top right menu icon.

Adobe Illustrator

Illustrator is a little different to Photoshop, the OpenType features are not in the Character panel instead they have their own **OpenType panel** which can be accessed via the **Window > Type** menu.

Adobe InDesign

OpenType features are enabled via the **Character window** using InDesign. Unlike Photoshop there are not currently any shortcuts in the main panel so you will need to click the menu button in the top right corner of the window and go to **OpenType**.

Microsoft Word

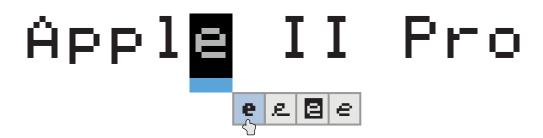
To access OpenType features in MS Word, go to **Modify Style**, click **Format** then select **Font**, once the dialog box appears select the **Advanced** tab and OpenType Features will appear for selection and modification.

LibreOffice

An Open Source and Free Office Suite with a full range of OpenType features.

www.libreoffice.org







2 Apple II Pro

Apple II Pro is a vastly expanded version of the original Apple IIc and Apple IIe internal character sets all combined into one font which is also WGL4 compliant.



WGL4 fonts is a glyph list published by Microsoft Corporation.

Character Coverage

Code Pages:

1252 Latin 1

✓ 1250 Latin 2: Eastern Europe

✓ 1251 Cyrillic

✓ 1253 Greek

✓ 1254 Turkish

✓ 1257 Windows Baltic

Macintosh Character Set (Roman)

✓ OEM Character Set

Unicode Ranges:

Basic Latin

✓ Latin-1 Supplement

✓ Latin Extended-A

Spacing Modifier Letters

Spacing Modifier Letters

Greek and Coptic

Cyrillic

☑ General Punctuation

Superscripts and Subscripts

✓ Letter like Symbols

✓ Number Forms

✓ Arrows

Mathematical Operators

Miscellaneous Technical

Control Pictures

S Box Drawing

Block Elements

Geometric Shapes

Misc. Mathematical Symbols-A

Misc. Mathematical Symbols-B

Supplemental Mathematical Operators

Misc. Symbols and Arrows

Cyrillic Extended-A

Supplemental Punctuation

Modifier Tone Letters

✓ Private Use Area (plane 0)

☑ Alphabetic Presentation Forms



Main Character Sets

Basic Latin

```
1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdef9hijklmnopqrstuvwxyz~@#$%^&*()_+\-=
EJ{}; '\:""|,./<>?\
```

Accented Characters

```
ááaááããããããããçécccddĕĕéeRééen

§§§§§hA:iiririririrandouououovoo

ńñprrssssp++tuouououovoo

ńñwayy9yźźż`'''''

ÄÄÄÄÄÄÄÄÄÄÄÄÄÉcccobĐĕĕċēNERöcGòAïIIr!ïJKĽĽĻĿŁ

ńñyöööókkŖsssp+trouovoowow

ðŶźźiGĕ¢ëeffYìñooðoðøšúouovž
```

Cyrillic

```
АБВГГДЕЖЗИЙКЛМНОПРСТУ
ФХЦЧШШЪЫЬЭЮЯЁЂГЕЗІГДЉ
ВЋŔŸџѢ
абвггдежзийклмнопрсту
ФХЦЧшшъыьэюяёђгезігіљ
вћŔŸџѣ
```



Greek

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΤΥΦΧ ΨΩΆΈΉΊϊΌΎϔΩΣ αβτδεζηθικλμνξοπρτνψχ ΨωάέΛιϊόγΫώσ

OpenType Standard Features

- **Standard Ligatures**
- □ Contextual Alternatives
- ☑ Discretionary Ligatures
- **Swash**
- **Stylistic Alternatives**

- Titling Alternatives
- ✓ Ordinals
- Fractions
- Stylistic Sets

Standard Ligatures

| ff | fi | f1 | ſt | ffi | ff1 |
|----|----|----|----|-----|-----|
| ff | fi | fl | Æ | ffi | ffl |

Discretionary Ligatures

| Th | ct | fЬ | fh | fj | fk | ft | st | ffb |
|----|----|----|----|----|----|----|----|-----|
| Th | æ | fb | fh | fi | fk | ft | st | ffь |



Swash (Script Characters)

| а | Ь | С | d | е | £ | 9 | h | i | j | k | 1 | m | п |
|---|---|----|---|---|---|----|---|----|---|---|----|----|----|
| æ | Ь | c | d | e | 4 | g. | ħ | j. | 4 | k | T | m, | 'n |
| 0 | Р | Я | r | s | t | u | V | ы | × | 9 | z | e | 8. |
| Ω | æ | 9, | ж | a | £ | ш | ж | M | × | Ą | ß. | ല | 8 |

Stylistic Alternatives - Inverse (Negative)

The Negative or (Inverse) character set contains the most popular used characters covering the Code Page 1251 Latin 1. For a complete Inverse Character Set, Apple II NEG Pro is available for use.

Titling Alternatives - Italic Characters

| A | В | ε | D | Ε | F | G | Н | I | J | К | L |
|---|---|----|---|---|----|---|----|----|---|----|---|
| М | N | 0 | Р | Ω | R | S | 7 | IJ | Ų | W | Х |
| Υ | Z | a | Ь | C | đ | e | ۴ | 9 | h | i | j |
| k | 1 | 77 | n | 0 | Ρ | 9 | r | 5 | ŧ | и | V |
| W | х | y | Z | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | ļ | @ | # | \$ | 2 | .4 | & | * | (| > |
| + | _ | Ε | 3 | | 7 | C | ł |) | ? | .* | N |

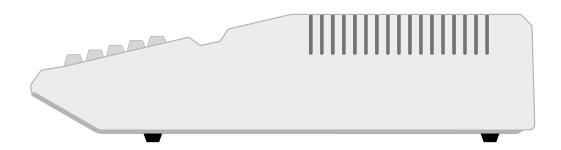


Ordinals

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|----|-----|---|---|
| 0 | I | 2 | 3 | 4 | 5 | 6 | 7 | + | q |
| + | _ | = | (|) | n | No | o . | | |
| + | - | = | < | > | n | ŀ | Į2 | | |

Fractions

| 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | 1/10 |
|-----|-----|-----|-----|------|-----|-----|-----|------|
| 1/2 | 1/3 | 1/4 | 1/5 | 17.6 | 1/7 | 17. | 1/4 | 1710 |
| 2/3 | 2/5 | 3/4 | 3/5 | 3/8 | 4/5 | 5/6 | 5/8 | 7/8 |
| 2/3 | 2/5 | 3/4 | 3/5 | 3/+ | 4/5 | 5/6 | 5/4 | 7/4 |





Stylistic Sets

Apple II Pro contains the following stylistic sets:

1. MouseText

Pseduo GUI - 32 Characters.

2. Small Fractions

Three characters become one character.

3. Segmented Digital

Digital Clock Numbers.

4. Script Lowercase

Small case letters hand written in appearance.

5. Small Caps Alphanumeric

Capital letters which are the height of small case letters.

6. Inverse

Negative Character Set

7. Italic

Slanted characters.

8. Bold

Heavier set characters.



Some applications such as MS Word 2016 will show only the stylistic number not the actual name.

Apple MouseText Characters

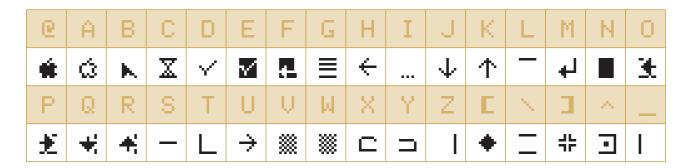
MouseText is a set of 32 graphical characters first implemented in the Apple //c to create a pseudo graphical interface. They were then retrofitted to the Apple IIe forming part of the Enhanced lle upgrade.

Apple II Pro uses the same corresponding ASCII characters as per the Apple Reference Manual which can be accessed by choosing Stylistic Set 1.

Some Stylistic Sets are duplicates of OpenType Defaults; for applications such as Microsoft Office 2016 which doesn't support all OpenType Defaults.



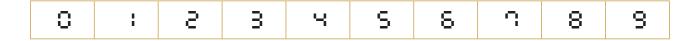
Stylistic Set 01 – MouseText



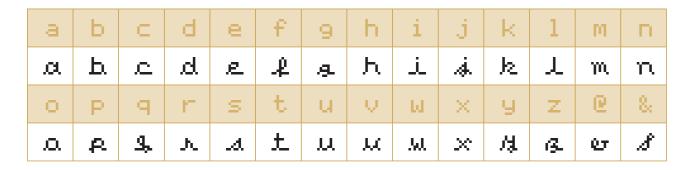
Stylistic Set 02 – Small Fractions

| 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | 1/10 |
|-----|----------|-----|-----|-----|-----|----------|-----|------|
| 烃 | 16 | 14 | 16 | 1/6 | 14 | % | 14 | У6 |
| 2/3 | 2/5 | 3/4 | 3/5 | 3/8 | 4/5 | 5/6 | 5/8 | 7/8 |
| * | % | 34 | × | * | % | % | % | 74 |

Stylistic Set 03 – Segmented Digital



Stylistic Set 04 – Script Lowercase





Stylistic Set 05 – Small Caps

| 0 | 1 | 2 | 3 | 4 | 8 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| А | В | С | D | E | F | G | Н | I | J |
| К | L | М | N | 0 | P | Q | R | s | Т |
| U | V | W | × | Υ | z | | | | |

Apple II Pro contains actual small cap characters. Some applications such as Word 2016 use computer generated ones that are just reduced capitals. Such characters are considered to be typographically undesirable by professionals.

Stylistic Set 06 – Inverse (Negative)

Negative or (Inverse) contains the most popular used characters, Code Page 1251 Latin 1. For a complete Inverse Character Set, Apple II NEG Pro can be used.

Stylistic Set 07 – Italic

| A | В | ε | D | Ε | F | G | H | I | J | К | L |
|---|---|----|---|---|----|---|----|----|---|---|---|
| М | N | 0 | Р | Ω | R | S | 7 | IJ | Ų | W | Х |
| Υ | Z | a | Ь | C | d | e | £ | 9 | h | i | j |
| k | 1 | 67 | n | 0 | Ρ | 9 | ۲- | 5 | ŧ | и | V |
| W | х | 9 | z | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | ļ | 9 | # | \$ | 2 | .4 | & | * | (| > |
| + | = | Ε | 3 | : | j | C | 1 |) | ? | 1 | N |



Stylistic Set 08 – Bold

| A | В | C | D | E | F | G | Н | I | J |
|---|---|---|----|---|----|---|---|---|---|
| K | L | H | Н | 0 | P | Q | R | s | T |
| Ų | Ų | W | X | Y | Z | | | | |
| a | Ь | ¢ | d | e | f | 9 | h | Ī | j |
| k | 1 | m | n | • | P | q | r | 5 | + |
| u | Ų | W | × | y | z | | | | |
| 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| < | > | € | I | } | Į. | 1 | < | > | ? |
| ~ | 6 | # | \$ | × | ŧ | _ | * | _ | = |
| • | , | + | * | | 1 | N | : | ; | |

Id Adobe InDesign Custom Glyph Sets

You can create your own library of often-used symbols or special characters—for instance, a collection of currency symbols—by creating a custom glyph set.

Open the **Glyphs** panel from the **Type** menu or the **Window > Type and Tables** sub menu. Choose **New Glyph Set** from the panel menu, and name it.

Then select a glyph in the panel, and choose **Add to Glyph Set** from the panel menu or from the contextual menu (right-click on the glyph). You can include glyphs from different typefaces in the same glyph set.

Being able to load your custom-made sets (choose it from the top of the **Show** pop-up menu, or choose **View Glyph Set** from the panel menu) in the **Glyphs** panel saves you from having to scroll through the entire font's worth of glyphs just to find that one you need.



Apple II Alt Pro



3 Apple II Alt Pro

Apple II Alt Pro is an alternate version of Apple II Pro with a reduced character set featuring the upper and lowercase alphabet having a more serif look, plus a different numeric set.

Character Coverage

| Co | ode Pages: | | |
|-------------------------|------------------------------|-------------------------|-------------------------------------|
| | 1252 Latin 1 | | 1254 Turkish |
| | 1250 Latin 2: Eastern Europe | | 1257 Windows Baltic |
| | 1251 Cyrillic | | Macintosh Character Set (Roman) |
| | 1253 Greek | $\overline{\mathbf{Y}}$ | OEM Character Set |
| Ur | nicode Ranges: | | |
| ~ | Basic Latin | | Control Pictures |
| $\overline{\mathbf{Y}}$ | Latin-1 Supplement | $\overline{\mathbf{Y}}$ | Box Drawing |
| | Latin Extended-A | $\overline{\mathbf{Y}}$ | Block Elements |
| | Spacing Modifier Letters | | Geometric Shapes |
| | Spacing Modifier Letters | | Misc. Mathematical Symbols-A |
| | Greek and Coptic | $\overline{\mathbf{Y}}$ | Supplemental Arrows-A |
| | Cyrillic | $\overline{\mathbf{S}}$ | Misc. Mathematical Symbols-B |
| | Cyrillic Supplement | | Supplemental Mathematical Operators |
| $\overline{\mathbf{C}}$ | General Punctuation | $\overline{\mathbf{S}}$ | Misc. Symbols and Arrows |
| $\overline{\mathbf{S}}$ | Superscripts and Subscripts | | Cyrillic Extended-A |
| $\overline{\mathbf{S}}$ | Currency Symbols | $\overline{\mathbf{S}}$ | Supplemental Punctuation |
| | Letter like Symbols | | Cyrillic Extended-B |
| $\overline{\mathbf{S}}$ | Number Forms | | Modifier Tone Letters |
| $\overline{\mathbf{Y}}$ | Arrows | $\overline{\mathbf{S}}$ | Private Use Area (plane 0) |
| | Mathematical Operators | $\overline{\mathbf{S}}$ | Alphabetic Presentation Forms |
| | Miscellaneous Technical | | |



Main Character Set

Basic Latin

1234567890ABCDEF6HIJKLMNOPORSTUVWXYZ
abcdefghijklmnopqrstuvwxyz~@#\$%^&*()_+`-=
[]{};'\:""|,./<>?\ø0

OpenType Standard Features

- Standard Ligatures
- □ Contextual Alternatives
- **☑** Discretionary Ligatures
- **Swash**
- **Stylistic Alternatives**

- ☐ Titling Alternatives
- ✓ Ordinals
- Fractions
- Stylistic Sets

Standard Ligatures

| f f | f i | f 1 | ſŧ | ffi | ffl |
|-----|-----|-----|----|-----|-----|
| ff | fi | fl | Æ | ffi | ffL |

Discretionary Ligatures

| Th | et | f b | fh | fј | fk | ft | st | ffb |
|----|----|-----|----|----|----|-----|----|-----|
| Th | æ | fb | fL | fi | fk | ft. | st | ш |



Swash (Script Characters)

| a | Ъ | C | d | е | f | g | h | i | Ĵ | k | 1 | m | n |
|---|---|----|---|---|---|---|---|---|---|-----|----|----|----|
| æ | Ь | æ | d | e | 4 | æ | Ъ | i | 4 | k | T | m, | 'n |
| 0 | Р | q | r | 3 | t | u | v | w | ж | Э | z | @ | 8. |
| Ω | æ | 9, | ж | A | £ | ш | Ж | M | × | /iL | ß. | ೮ | 8 |

Stylistic Alternatives - Inverse (Negative)

The Negative or (Inverse) character set contains the most popular used characters. For a complete Inverse Character Set, Apple II Alt NEG Pro is available for use.

Ordinals

| 0 | 1 | 2 | 3 | 4 | 5 | -6 | 7 | 8 | 9 |
|---|---|---|---|---|---|----|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | + | 9 |
| + | _ | = | (|) | n | | | | |
| + | - | = | < | > | v | | | | |

Fractions

| 1/2 | 1/3 | 174 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | 1/10 |
|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/+ | 1/4 | 1/10 |
| 2/3 | 2/5 | 374 | 3/5 | 3/8 | 475 | 5/6 | 5/8 | 7/8 |
| 2/3 | 2/5 | 3/4 | 3/5 | 3/. | 4/5 | 5/6 | 5/. | 7/4 |



Stylistic Sets

Apple II Alt Pro contains the following stylistic sets:

1. MouseText Running Man

Pseudo GUI - 32 Characters.

2. Small Fractions

Three characters become one character.

3. Segmented Digital

Numbers similar to a digital clock.

4. Script Lowercase

Small case letters hand written in appearance.

5. Small Caps Alphanumeric

Capital letters which are the height of small case letters.

6. Inverse

Negative character set.



Some applications such as MS Word 2016 will show only the stylistic number not the actual name.

Apple MouseText Characters

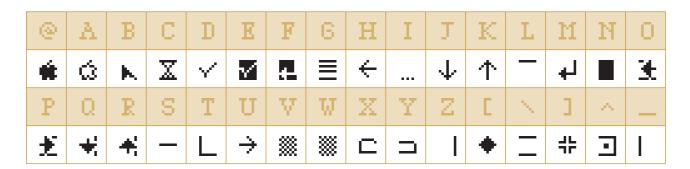
MouseText is a set of 32 graphical characters first implemented in the Apple //c to create a pseudo graphical interface. They were then retrofitted to the Apple IIe forming part of the Enhanced lle upgrade.

Apple II Alt Pro uses the same corresponding ASCII characters as per the Apple Reference Manual which can be accessed by choosing Stylistic Set 1.

Some Stylistic Sets are duplicates of OpenType Defaults; for applications such as Microsoft Office 2016 which doesn't support all OpenType Defaults.



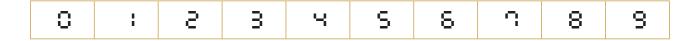
Stylistic Set 01 – MouseText



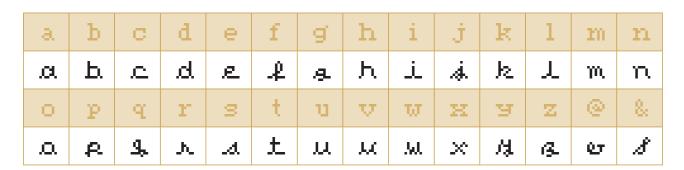
Stylistic Set 02 – Small Fractions

| 1/2 | 1/3 | 1/4 | 1/5 | 1/6 | 1/7 | 1/8 | 1/9 | 1/10 |
|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 整 | * | *4 | 转 | * | #5 | * | 核 | * |
| 2/3 | 2/5 | 374 | 3/5 | 3/8 | 475 | 5/6 | 5/8 | 7/8 |
| 36 | 36 | ¥ | 36 | 34 | 76 | 36 | 54 | 74 |

Stylistic Set 03 – Segmented Digital



Stylistic Set 04 – Script Lowercase





Stylistic Set 05 – Small Caps

| 0 | 1 | 2 | 3 | 4 | 8 | 6 | 7 | 8 | 9 |
|-----|---|---|---|---|---|---|---|---|---|
| A | В | С | D | E | F | G | н | I | J |
| 180 | L | м | N | 0 | P | Q | R | s | T |
| υ | v | W | × | Y | z | | | | |

📝 Apple II Alt Pro contains actual small cap characters. Some applications such as Word 2016 use computer generated ones that are just reduced capitals. Such characters are considered to be typographically undesirable by professionals.

Stylistic Set 06 – Negative (Inverse)

The Negative or (Inverse) stylistic set contains the most popular used characters. For a complete Inverse Character Set, Apple II Alt NEG Pro can be used.

Adobe InDesign Custom Glyph Sets

You can create your own library of often-used symbols or special characters—for instance, a collection of currency symbols—by creating a custom glyph set.

Open the **Glyphs** panel from the **Type** menu or the **Window** > **Type** and **Tables** submenu. Choose **New Glyph Set** from the panel menu, and name it.

Then select a glyph in the panel, and choose **Add to Glyph Set** from the panel menu or from the contextual menu (right-click on the glyph). You can include glyphs from different typefaces in the same glyph set.

Being able to load your custom-made sets (choose it from the top of the **Show** pop-up menu, or choose View Glyph Set from the panel menu) in the Glyphs panel saves you from having to scroll through the entire font's worth of glyphs just to find that one you need.



4 Alternate Character Shortcuts

Macintosh

Font Book

Font Book lets you easily install and preview fonts; search through them for almost any glyph or character effortlessly.

https://support.apple.com/en-ca/guide/font-book/toc

Microsoft Windows

Alt key

In Microsoft Windows, holding down the Alt key while typing in numbers (often referred to as Alt codes) on the numeric keypad allows the user to type special characters not normally available on the keyboard such as foreign languages, symbols and more.

The following tables features keyboard shortcuts to access the most commonly used alternate characters for Microsoft Windows.

With Numeric Keypad

- **a.** Make sure your keyboard has a numeric keypad.
- **b.** Make sure the numeric keypad is enabled by pressing the two key. The Num Lock's led light will turn on indicating that the numeric keypad is enabled.
- **c.** Place your screen cursor on the location where you want to insert the special character.
- **d.** Press and hold down the $\boxed{\text{All}}$ key on the left side of the keyboard.
- **e.** On the numeric keypad, type the sequence of numbers (table shown below) that corresponds to the character you want to insert.
- f. Release the key and the special character will appear at your cursor's location.



The ALT code for the Greek capital letter omega Ω is 234 on the Windows ALT Code Symbols page. Press and hold the [AH] key, type [2] [3] [4] on the numeric keypad, then release the Am key.

The ALT code for the Latin small letter ≡ with circumflex Ė is 0234 on the Windows ALT Code Symbols page. Press and hold the Att key, type 10 2 4 on the numeric keypad, then release the Am key.

The leading zero makes all the difference!

AH + < ##, where ### is the decimal code point value of a character, generates an OEM-encoded character (IBM Code Page 437 / MS-DOS).

 \Box + <0###>, where ### is the decimal code point value of a character, generates a Windows-encoded character (Code Page 1252 Windows Latin 1 ANSI).

Without Numeric Keypad

- **a.** On a laptop keyboard, a set of keys have a secondary function, that when enabled, makes them act as a numeric keypad.
- **b.** Locate the Function or key on the bottom left of the keyboard.
- **c.** Locate the Num Lock or Num Lk key on the top right of the keyboard.
- **d.** Press and hold the 🖪 key, press and release the 🖫 key, release the 🖪 key. The laptop's numeric keypad is now enabled.
- e. Place your screen cursor on the location where you want to insert the special character.
- **f.** Press and hold down the key on the left side of the keyboard.
- g. On the numeric keypad, type the sequence of numbers (decimal code point value) that corresponds to the character you want to insert.
- **h.** Release the All key.
- i. The special character will appear at your cursor's location.
- **j.** Repeat step 3 to disable the numeric keypad.
- On some laptops, simply pressing Fn and ALT at the same time, then typing the sequence of numbers (decimal code point value) on the numeric keypad will work.



Alt Code Tables

| Puncti | uation Sign: | S | | | |
|-----------------------|---|--|---|---|--|
| Char | Sequence | Description | Char | Sequence | Description |
| i | 173 | Inverted exclamation mark | | 0130 | Single low-9 quotation mark |
| - | 0166 | Broken bar, parted rule | ** | 0147 | Left double quotation mark |
| S | 21 | Section sign | | 0148 | Right double quotation mark |
| « | 174 | Left-pointing double angle quotation mark | | 0132 | Double low-9 quotation mark |
| >> | 175 | Right-pointing double angle quotation mark | + | 0134 | Dagger, obelisk, cross |
| ٠ | 248 | Degree sign | # | 0135 | Double dagger, double obelisk, diesis |
| Ħ | 20 | Pilcrow sign, paragraph sign | • | 7 | Bullet |
| | 250 | Middle dot, midpoint | | 0133 | Horizontal ellipsis, three dot leader |
| Ł | 168 | Inverted question mark | % | 0137 | Per mille sign, per thousand |
| _ | 0150 | En dash | < | 0139 | Single left-pointing angle quotation mark |
| _ | 0151 | Em dash | > | 0155 | Single right-pointing angle quotation mark |
| | 0145 | Left single quotation mark | ij | 19 | Double exclamation mark |
| | 0146 | Right single quotation mark | á | 160 | Latin small letter a with acute |
| Latin L | etters with | Diacritical Marks (Accents) | | | |
| | | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| Char Å | Sequence 0193 | Description Latin capital letter A with acute | Char Ñ | Sequence 165 | Description Latin capital letter N with tilde |
| | • | • | | · | |
| Á | 0193 | Latin capital letter A with acute | ñ | 165 | Latin capital letter N with tilde |
| á | 0193 | Latin capital letter A with acute Latin small letter a with grave | ñ ð | 165 162 | Latin capital letter N with tilde Latin small letter o with acute |
| Á á | 0193 133 0192 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave | ñ d d | 165 162 0211 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute |
| Á á Á | 0193 133 0192 131 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex | й 6 6 | 165 162 0211 149 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave |
| A a a a a | 0193 133 0192 131 0194 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex | ñ 6 6 6 | 165 162 0211 149 0210 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave Latin capital letter O with grave |
| A a A a A | 0193 133 0192 131 0194 132 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis | ñ 6 6 | 165 162 0211 149 0210 147 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave Latin capital letter O with grave Latin small letter o with circumflex |
| A 8 A 3 A 3 A | 0193 133 0192 131 0194 132 142 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis Latin capital letter A with diaeresis | ñ 6 | 165 162 0211 149 0210 147 0212 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave Latin capital letter O with grave Latin small letter o with circumflex Latin capital letter O with circumflex |
| A 70 A 70 A 70 A 70 A | 0193 133 0192 131 0194 132 142 0227 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis Latin capital letter A with diaeresis Latin small letter a with tilde | ñ 6 6 | 165 162 0211 149 0210 147 0212 148 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave Latin capital letter O with grave Latin small letter o with circumflex Latin capital letter O with circumflex Latin small letter o with diaeresis |
| A | 0193 133 0192 131 0194 132 142 0227 0195 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis Latin capital letter A with diaeresis Latin capital letter a with tilde Latin capital letter A with tilde | ñ 6 6 0 | 165 162 0211 149 0210 147 0212 148 153 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave Latin capital letter O with grave Latin small letter o with circumflex Latin capital letter O with circumflex Latin capital letter O with diaeresis Latin capital letter O with diaeresis |
| A | 0193 133 0192 131 0194 132 142 0227 0195 134 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis Latin capital letter A with diaeresis Latin capital letter a with tilde Latin capital letter A with tilde Latin small letter a with ring above | 2 0 0 0 0 0 0 0 0 0 | 165 162 0211 149 0210 147 0212 148 153 0245 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with grave Latin capital letter O with grave Latin small letter o with circumflex Latin capital letter O with circumflex Latin capital letter o with diaeresis Latin capital letter O with diaeresis Latin small letter o with tilde |
| A | 0193 133 0192 131 0194 132 142 0227 0195 134 143 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis Latin capital letter A with diaeresis Latin capital letter A with tilde Latin small letter a with tilde Latin capital letter A with ring above Latin capital letter A with ring above | 2 0 0 0 0 0 0 0 0 0 0 | 165 162 0211 149 0210 147 0212 148 153 0245 0213 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with grave Latin capital letter O with grave Latin small letter o with circumflex Latin capital letter O with circumflex Latin capital letter o with diaeresis Latin capital letter O with diaeresis Latin capital letter O with diaeresis Latin capital letter O with tilde Latin capital letter O with tilde |
| | 0193 133 0192 131 0194 132 142 0227 0195 134 143 145 | Latin capital letter A with acute Latin small letter a with grave Latin capital letter A with grave Latin small letter a with circumflex Latin capital letter A with circumflex Latin small letter a with diaeresis Latin capital letter A with diaeresis Latin capital letter A with tilde Latin small letter a with tilde Latin capital letter A with ring above Latin capital letter A with ring above Latin small letter ae | ñ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 165 162 0211 149 0210 147 0212 148 153 0245 0213 248 | Latin capital letter N with tilde Latin small letter o with acute Latin capital letter O with acute Latin small letter o with grave Latin capital letter O with grave Latin small letter o with circumflex Latin capital letter O with circumflex Latin capital letter O with diaeresis Latin capital letter O with diaeresis Latin capital letter O with tilde Latin capital letter O with tilde Latin small letter O with tilde Latin small letter O with stroke |



| ě | 0240 | Latin small letter eth | š | 0154 | Latin small letter s with caron |
|---------|--------------|--|------------|----------|--|
| Ð | 0208 | Latin capital letter ETH | š | 0138 | Latin capital letter S with caron |
| é | 130 | Latin small letter e with acute | В | 225 | Latin small letter sharp s |
| É | 144 | Latin capital letter E with acute | Þ | 0254 | Latin small letter thorn |
| ė | 138 | Latin small letter e with grave | Þ | 0222 | Latin capital letter THORN |
| Ė | 0200 | Latin capital letter E with grave | ú | 163 | Latin small letter u with acute |
| é | 136 | Latin small letter e with circumflex | Ú | 0218 | Latin capital letter U with acute |
| É | 0202 | Latin capital letter E with circumflex | ù | 151 | Latin small letter u with grave |
| ĕ | 137 | Latin small letter e with diaeresis | Ù | 0217 | Latin capital letter U with grave |
| Ë | 0203 | Latin capital letter E with diaeresis | ٥ | 150 | Latin small letter u with circumflex |
| f | 159 | Florin sign, function sign | ٥ | 0219 | Latin capital letter U with circumflex |
| í | 161 | Latin small letter i with acute | ü | 129 | Latin small letter u with diaeresis |
| f | 0205 | Latin capital letter I with acute | Ü | 154 | Latin capital letter U with diaeresis |
| ì | 141 | Latin small letter i with grave | ý | 0253 | Latin small letter y with acute |
| Ì | 0204 | Latin capital letter I with grave | Ý | 0221 | Latin capital letter Y with acute |
| î | 140 | Latin small letter i with circumflex | ij | 152 | Latin small letter y with diaeresis |
| Î | 0206 | Latin capital letter I with circumflex | Ÿ | 0159 | Latin capital letter Y with diaeresis |
| T | 139 | Latin small letter i with diaeresis | ž | 0158 | Latin small letter z with caron |
| ï | 0207 | Latin capital letter I with diaeresis | ž | 0142 | Latin capital letter Z with caron |
| ñ | 164 | Latin small letter n with tilde | | | |
| Diacrit | ical / Accei | nt Marks | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| ^ | 94 | Circumflex accent | 1 | 0180 | Acute accent |
| N. | 96 | Grave accent | | 0184 | Cedilla |
| • • | 0168 | Diaeresis | ^ | 0136 | Modifier Letter Circumflex Accent |
| _ | 0175 | Macron, overline, overbar | <i>A</i> 4 | 0152 | Small tilde |
| Greek | Letters | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| μ | 230 | Micro sign, mu | α | 224 | Greek small letter alpha |
| Γ | 226 | Greek capital letter gamma | 9 | 235 | Greek small letter delta |
| 00 | 233 | Greek capital letter theta | € | 238 | Greek small letter epsilon |
| Σ | 228 | Greek capital letter sigma | π | 227 | Greek small letter pi |
| τ | 231 | Greek capital letter tau | σ | 229 | Greek small letter sigma |
| Ф | 232 | Greek capital letter phi | φ | 237 | Greek small letter phi |



| Ω | 234 | Greek capital letter omega | | | |
|---------|--------------|---|------------|----------|---------------------------------------|
| Intelle | ctual Prope | erty | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| тн | 0153 | Trade mark sign | 8 | 0174 | Registered sign |
| (3) | 0169 | Copyright sign | | | |
| Currer | ncy Symbol | S | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| \$ | 36 | Dollar sign | ¥ | 157 | Yen sign, yuan sign |
| € | 0128 | Euro sign | Fe | 158 | Peseta sign |
| ¢ | 155 | Cent sign | × | 0164 | Currency sign |
| £ | 156 | Pound sign, pound sterling, Irish punt | | | |
| Supers | scripts | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| 3 | 166 | Feminine ordinal indicator | 2 | 253 | Superscript two, squared |
| 2 | 167 | Masculine ordinal indicator | 3 | 0179 | Superscript three, cubed |
| I | 0185 | Superscript one | n | 252 | Superscript Latin small letter n |
| Fractio | ons | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| 94 | 172 | Vulgar fraction one quarter | 3 4 | 0190 | Vulgar fraction three quarters |
| 14 | 171 | Vulgar fraction one half | | | |
| Gende | er & Astrolo | gical Symbols | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| ₽ | 12 | Female sign, alchemical symbol for copper | ð | 11 | Male sign, alchemical symbol for iron |
| Emotio | con / Emoji | Symbols | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| ⊜ | 1 | White smiling face, smiley face | ⊗ | 2 | Black smiling face |
| Musico | al Symbols | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| ą, | 13 | Eighth note, quaver | Ą | 14 | Beamed eighth notes/quavers |
| Math 9 | Symbols | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| L | 28 | Right angle | Ω | 239 | Intersection |
| + | 43 | Plus sign | = | 240 | Identical to |
| < | 60 | Less-than sign | ± | 241 | Plus-minus sign |



| = | 61 | Equals sign | 2 | 242 | Greater-than or equal to |
|--------|----------|---|----------|----------|---|
| > | 62 | Greater-than sign | ≤ | 243 | Less-than or equal to |
| 1 | 124 | Vertical line, vertical bar | ſ | 244 | Top half integral |
| | 126 | Tilde | J | 245 | Bottom half integral |
| _ | 169 | Reversed not sign, beginning of line | ÷ | 246 | Division sign, obelus |
| _ | 170 | Not sign, angled dash | z | 247 | Almost equal to, asymptotic to |
| × | 0215 | Multiplication sign | • | 249 | Bullet operator |
| 00 | 236 | Infinity | V | 251 | Square root, radical sign |
| Box Dr | rawings | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| _ | 196 | Box drawings light horizontal | = | 205 | Box drawings double horizontal |
| ı | 179 | Box drawings light vertical | II | 186 | Box drawings double vertical |
| Г | 218 | Box drawings light down and right | F | 213 | Box drawings down single and right double |
| ٦ | 191 | Box drawings light down and left | п | 214 | Box drawings down double and right single |
| L | 192 | Box drawings light up and right | F | 201 | Box drawings double down and right |
| | 217 | Box drawings light up and left | 7 | 184 | Box drawings down single and left double |
| F | 195 | Box drawings light vertical and right | П | 183 | Box drawings down double and left single |
| 4 | 180 | Box drawings light vertical and left | ╗ | 187 | Box drawings double down and left |
| т | 194 | Box drawings light down and horizontal | F | 212 | Box drawings up single and right double |
| | 193 | Box drawings light up and horizontal | Щ | 211 | Box drawings up double and right single |
| + | 197 | Box drawings light vertical and horizontal | ഥ | 200 | Box drawings double up and right |
| Ⅎ | 190 | Box drawings up single and left double | = | 209 | Down single and horizontal double |
| ш | 189 | Box drawings up double and left single | π | 210 | Down double and horizontal single |
| 긘 | 188 | Box drawings double up and left | TF | 203 | Box drawings double down and horizontal |
| F | 198 | Box drawings vertical single and right double | ± | 207 | Up single and horizontal double |
| ⊩ | 199 | Box drawings vertical double and right single | ж | 208 | Up double and horizontal single |
| ۱⊧ | 204 | Box drawings double vertical and right | ᅶ | 202 | Double up and horizontal |
| ‡ | 181 | Box drawings vertical single and left double | ‡ | 216 | Vertical single and horizontal double |
| -11 | 182 | Box drawings vertical double and left single | # | 215 | Vertical double and horizontal single |
| 뤼 | 185 | Box drawings double vertical and left | # | 206 | Double vertical and horizontal |
| Block | Elements | | | | |
| Char | Sequence | Description | Char | Sequence | Description |
| *** | 176 | Light shade | | 220 | Lower half block |
| *** | 177 | Medium shade, speckles fill, dotted fill | | 221 | Left half block |



| 目 | 178 | Dark shade | | 222 | Right half block | |
|--------------|------------------|------------------------------|----------|----------|---|--|
| | 219 | Full block, solid block | | 223 | Upper half block | |
| Geom | Geometric Shapes | | | | | |
| Char | Sequence | Description | Char | Sequence | Description | |
| | 8 | Inverse bullet | _ | 22 | Black rectangle | |
| 0 | 9 | White circle | * | 30 | Black up-pointing triangle | |
| Ø | 10 | Inverse white circle | • | 31 | Black down-pointing triangle | |
| • | 16 | Black right-pointing pointer | | 254 | Black square | |
| 4 | 17 | Black left-pointing pointer | | | | |
| Arrow | Arrows | | | | | |
| Char | Sequence | Description | Char | Sequence | Description | |
| Ф | 18 | Up down arrow | ÷ | 26 | Rightwards arrow, Z notation total function | |
| | 23 | Up down arrow with base | ← | 27 | Leftwards arrow | |
| 个 | 24 | Upwards arrow | ÷ | 29 | Left right arrow, Z notation relation | |
| \downarrow | 25 | Downwards arrow | | | | |
| Playin | g Cards | | | | | |
| Char | Sequence | Description | Char | Sequence | Description | |
| * | 3 | Black heart suit | • | 5 | Black club suit | |
| + | 4 | Black diamond suit | ÷ | 6 | Black spade suit | |
| Miscel | Miscellaneous | | | | | |
| Char | Sequence | Description | Char | Sequence | Description | |
| * | 15 | White sun with rays | ۵ | 127 | House | |
| | | | | | | |





5 ASCII Character Set

American Standard Code Characters

The following tables represent only characters 32-127 which are the standard, implementation-independent alphanumeric characters that are most commonly used.

| ASCII | Char. | Full description | ASCII | Char. | Full description |
|-------|-------|-------------------------------|-------|-------|-------------------|
| 032 | | Empty Space | 057 | 9 | Number nine |
| 033 | į. | Exclamation mark | 058 | : | Colon |
| 034 | п | Quotation mark; quotes | 059 | j | Semicolon |
| 035 | # | Number sign | 060 | < | Less-than sign |
| 036 | \$ | Dollar sign | 061 | = | Equals sign |
| 037 | 2 | Percent sign | 062 | > | Greater-than sign |
| 038 | 8. | Ampersand | 063 | ? | Question mark |
| 039 | - 1 | Apostrophe | 064 | @ | AT sign |
| 040 | (| Round brackets or parentheses | 065 | A | Capital A |
| 041 | > | Round brackets or parentheses | 066 | В | Capital B |
| 042 | * | Asterisk | 067 | С | Capital C |
| 043 | + | Plus sign | 068 | D | Capital D |
| 044 | | Comma | 069 | Е | Capital E |
| 045 | - | Hyphen | 070 | F | Capital F |
| 046 | | Dot, full stop | 071 | G | Capital G |
| 047 | 1 | Slash | 072 | Н | Capital H |
| 048 | 0 | Number zero | 073 | I | Capital I |
| 049 | 1 | Number one | 074 | J | Capital J |
| 050 | 2 | Number two | 075 | K | Capital K |
| 051 | 3 | Number three | 076 | L | Capital L |
| 052 | 4 | Number four | 077 | М | Capital M |
| 053 | 5 | Number five | 078 | N | Capital N |
| 054 | 6 | Number six | 079 | 0 | Capital O |
| 055 | 7 | Number seven | 080 | Р | Capital P |
| 056 | 8 | Number eight | 081 | Q | Capital Q |



| 082 | R | Capital R | 116 | t | Lowercase t |
|-----|---|----------------------------|-----|----|--------------------------------------|
| 083 | S | Capital S | 117 | u | Lowercase u |
| 084 | T | Capital T | 118 | v | Lowercase v |
| 085 | U | Capital U | 119 | ы | Lowercase w |
| 086 | V | Capital V | 120 | × | Lowercase |
| 087 | М | Capital W | 121 | y | Lowercase y |
| 088 | Х | Capital X | 122 | z | Lowercase z |
| 089 | Υ | Capital Y | 123 | € | Curly brackets or braces |
| 090 | Z | Capital Z | 124 | | Vertical-bar, VBAR, vertical line |
| 091 | Е | Square brackets | 125 | • | Curly brackets or braces |
| 092 | | Backslash | 126 | A. | Tilde; swung dash |
| 093 | 3 | Square brackets | 127 | | Delete |
| 094 | ^ | Caret or circumflex accent | 128 | ç | Majuscule C-cedilla |
| 095 | | Underscore | 129 | ü | Letter "u" with umlaut or diareses |
| 096 | × | Grave accent | 130 | é | Letter "e" with acute or "e-acute" |
| 097 | а | Lowercase a | 131 | á | a-circumflex |
| 098 | Ь | Lowercase b | 132 | ä | Letter "a" with umlaut or diareses |
| 099 | С | Lowercase c | 133 | á | Letter "a" with grave accent |
| 100 | d | Lowercase d | 134 | å | Letter "a" with a ring |
| 101 | e | Lowercase e | 135 | 9 | Minuscule c-cedilla |
| 102 | f | Lowercase f | 136 | é | e-circumflex |
| 103 | 9 | Lowercase g | 137 | ĕ | Letter "e" with umlaut or diareses |
| 104 | h | Lowercase h | 138 | ė | Letter "e" with grave accent |
| 105 | i | Lowercase i | 139 | T | Letter "i" with umlaut or diareses |
| 106 | j | Lowercase j | 140 | î | i-circumflex |
| 107 | k | Lowercase k | 141 | ì | Letter "i" with grave accent |
| 108 | 1 | Lowercase l | 142 | Ä | Letter "A" with umlaut or diareses |
| 109 | m | Lowercase m | 143 | A | Capital letter "A" with a ring |
| 110 | п | Lowercase n | 144 | É | Capital letter "E" with acute accent |
| 111 | 0 | Lowercase o | 145 | æ | Latin diphthong "ae" in lowercase |
| 112 | Р | Lowercase p | 146 | Æ | Latin diphthong "AE" in uppercase |
| 113 | q | Lowercase q | 147 | ô | o-circumflex |
| 114 | r | Lowercase r | 148 | ŏ | Letter "o" with umlaut or diareses |
| 115 | s | Lowercase s | 149 | ð | Letter "o" with grave accent |



| 150 | a | u-circumflex | 184 | 0 | Copyright symbol |
|-----|-----|--------------------------------------|-----|----------|--------------------------------------|
| 151 | ù | Letter "u" with grave accent | 185 | 41 | Box drawing character |
| 152 | ij | Lowercase letter "y" with diareses | 186 | II | Box drawing character |
| 153 | ŏ | Letter "O" with umlaut or diareses | 187 | ╗ | Box drawing character |
| 154 | ij | Letter "U" with umlaut or diareses | 188 | 괴 | Box drawing character |
| 155 | ø | Slashed zero or empty set | 189 | ¢ | Cent symbol |
| 156 | £ | Symbol for the pound sterling | 190 | ¥ | YEN and YUAN sign |
| 157 | ø | Slashed zero or empty set | 191 | ٦ | Box drawing character |
| 158 | × | Multiplication sign | 192 | L | Box drawing character |
| 159 | f | Function sign; florin sign | 193 | | Box drawing character |
| 160 | á | Letter "a" with acute accent | 194 | т | Box drawing character |
| 161 | í | Letter "i" with acute accent | 195 | F | Box drawing character |
| 162 | 6 | Letter "o" with acute accent | 196 | _ | Box drawing character |
| 163 | ú | Letter "u" with acute accent | 197 | + | Box drawing character |
| 164 | ñ | Letter "n" with tilde; enye | 198 | 3 | Lowercase letter "a" with tilde |
| 165 | Ñ | Letter "N" with tilde; enye | 199 | ă | Capital letter "A" with tilde |
| 166 | 3 | Feminine ordinal indicator | 200 | ഥ | Box drawing character |
| 167 | 2 | Masculine ordinal indicator | 201 | F | Box drawing character |
| 168 | ż | Inverted question marks | 202 | <u> </u> | Box drawing character |
| 169 | 8 | Registered trademark symbol | 203 | ٦F | Box drawing character |
| 170 | ٦ | Logical negation symbol | 204 | I۴ | Box drawing character |
| 171 | 1/2 | One half | 205 | = | Box drawing character |
| 172 | 14 | Quarter or one fourth | 206 | # | Box drawing character |
| 173 | i | Inverted exclamation marks | 207 | × | Generic currency sign |
| 174 | « | Angle quotes or guillemets | 208 | ð | Lowercase letter "eth" |
| 175 | >> | Guillemets or angle quotes | 209 | Ð | Capital letter "Eth" |
| 176 | *** | Light Shade | 210 | É | E-circumflex |
| 177 | *** | Medium Shade | 211 | Ë | E-umlaut |
| 178 | 目 | Dark Shade | 212 | Ė | Letter "E" with grave accent |
| 179 | I | Box drawing character | 213 | T | Lowercase dot less i |
| 180 | 4 | Box drawing character | 214 | f | Capital letter "I" with acute accent |
| 181 | Á | Capital letter "A" with acute accent | 215 | Î | Letter "I" with circumflex accent |
| 182 | Å | A-circumflex | 216 | Ï | Letter "I" with umlaut or dieresis |
| 183 | À | Letter "A" with grave accent | 217 | | Box drawing character |



| 218 | Г | Box drawing character | 237 | Ý | Capital letter "Y" with acute accent |
|-----|---|--|-----|----|--------------------------------------|
| 219 | | Block | 238 | _ | Macron symbol |
| 220 | | Lower Half Block | 239 | 1 | Acute accent |
| 221 | - | Vertical broken bar | 240 | _ | Hyphen |
| 222 | Ì | Letter "I" with grave accent | 241 | ± | Plus-minus sign |
| 223 | - | Upper Half Block | 242 | _ | Underline or underscore |
| 224 | ð | Capital letter "O" with acute accent | 243 | 34 | Three quarters |
| 225 | В | Letter "Eszett"; "scharfes S" or "sharp S" | 244 | Я | Paragraph sign or pilcrow |
| 226 | Ó | O-circumflex | 245 | S | Section sign |
| 227 | ð | Letter "O" with grave accent | 246 | ÷ | The division sign; Obelus |
| 228 | õ | Letter "o" with tilde or "o-tilde" | 247 | , | Cedilla |
| 229 | ð | Letter "O" with tilde or "O-tilde" | 248 | ٠ | Degree symbol |
| 230 | μ | Lowercase letter "Mu"; micro sign | 249 | •• | Diaresis |
| 231 | Þ | Lowercase letter "Thorn" | 250 | | Interpunct or space dot |
| 232 | Þ | Capital letter "thorn" | 251 | ı | Superscript one |
| 233 | Ú | Capital letter "U" with acute accent | 252 | 3 | Cube or superscript three |
| 234 | 0 | U-circumflex | 253 | 2 | Square or superscript two |
| 235 | Ù | Letter "U" with grave accent | 254 | | Black square |
| 236 | Ý | Lowercase letter "y" with acute accent | 255 | | Space or no-break space |



6 Apple II Personal Computer

■ AppleSoft MouseText

The following Applesoft basic program requires an actual Apple //c, Apple IIe Enhanced or an Apple IIGS Personal Computer System, this program can also be tested on a software based emulator such as AppleWin - MS Windows or Virtual II - Apple MacIntosh.

Basic Program

- 10 D\$ = CHR\$ (4): REM CONTROL-D
- 20 PRINT: PRINT D\$; "PR#3" : REM TURN ON 80-COLUMN CARD
- 30 INVERSE
- 40 PRINT CHR\$ (27);"@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_";:
 REM PRINT ALTERNATE CHARACTER SET
- 50 PRINT CHR\$ (24);: REM TURN OFF THE ALTERNATE CHARACTER SET
- 60 NORMAL: REM TURN OFF INVERSE

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AppleWin - Copy and Paste Procedure

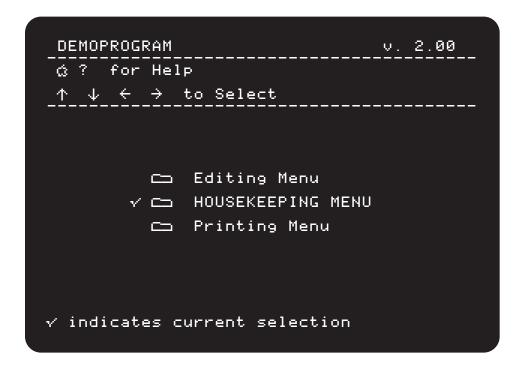
- **1.** Select and copy the basic program code shown above and switch to AppleWin, the program needs to be running in Apple //e Enhanced mode.
- 2. Select AppleWin Configuration.
- 3. Select Input following by selecting the Paste From Clipboard button.
- **4.** Select the **OK** button, the program code will fill the screen.
- **5.** At the command prompt **1**** type RUN and press **Enter**, the display will change to 80 columns and display MouseText characters on screen.



Apple II MouseText Simulated Screens

The following Apple II Screens were created with Adobe InDesign using the Apple II Pro OpenType font without the need of any graphic images.







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