

Guide to the Charmap application

for version 0.3

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This manual is for Charmap (version 0.3), a powerful character map.
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Acknowledgements

Charmap was inspired by Noah Levitt's `gucharmap` (<http://gucharmap.sourceforge.net/>), a character map for the GNOME desktop. As developer of Charmap, I can only hope to succeed in implementing all the features of `gucharmap`.

Charmap was my first application and I am grateful to the GNUstep developer community for the enthusiastic help it provided, especially Alex Malmberg (improvements to `charmap`'s Unicode support), Helge Hess (various conversions in the Inspector) and Greg Casamento (UI improvements).

1 News

1.1 Noteworthy changes in version ‘0.2’

- Displays more Unicode data in the Inspector
- Unicode-positions not assigned are grayed-out.
- More documentation

1.2 Noteworthy changes in version ‘0.1’

- Font selection
- Will show definition of CJK ideograph in the Inspector if UniHan.txt is in the directory Charmap is launched from.
- Documentation

2 Installing Charmap

2.0.1 Required software

You need to have the GNUstep core libraries installed in order to compile and use Charmap. The core packages are, at a minimum:

- gnustep-make
- gnustep-base
- gnustep-gui
- gnustep-back

See <http://www.gnustep.org/> for further information.

2.0.2 CJK Support

In order to view CJK information (at this time this means the definition of a CJK ideograph), you must have the file `Unihan.txt` in the same directory that Charmap is launched from. `Unihan.txt` can be obtained from:

<http://www.unicode.org/Public/UNIDATA/Unihan.zip>

`Unihan.txt` is a hefty file, 25MB when uncompressed. I'd like to keep Charmap lightweight so this file is not included with the source.

2.0.3 Build and Install

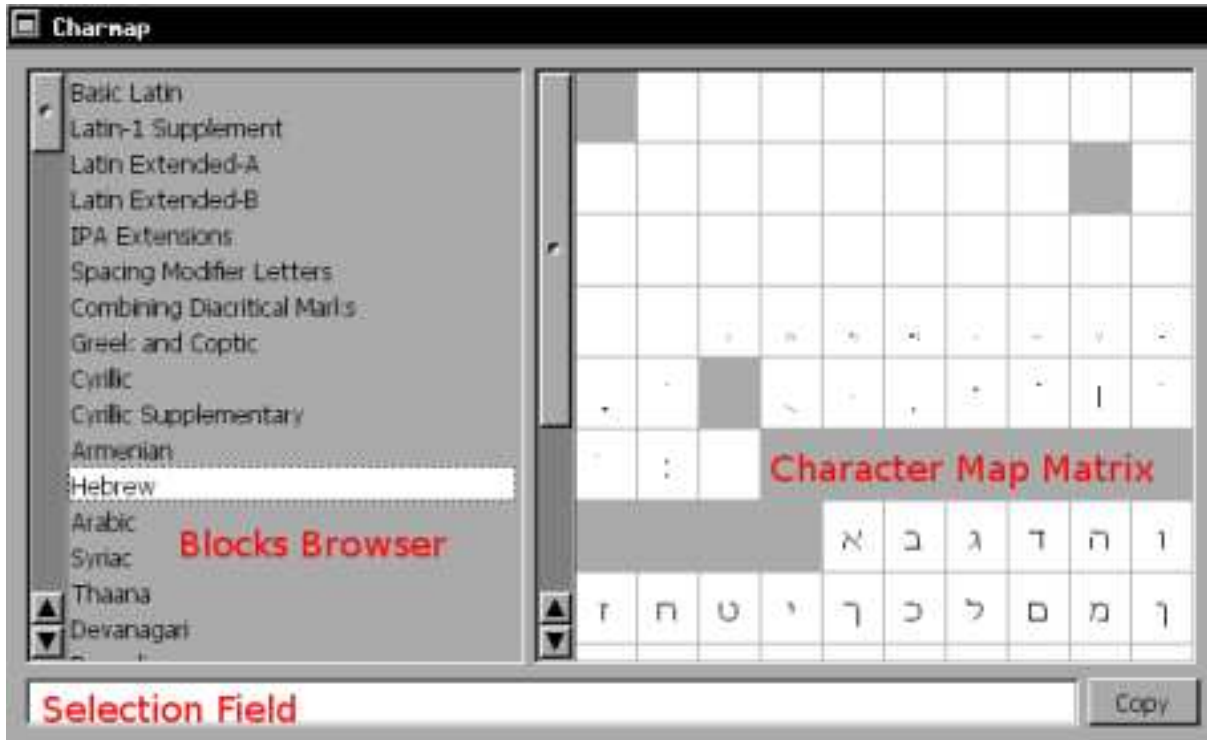
Steps to build:

`make && make install`

3 Using Charmap

3.1 Main Window

Charmap's main window consists of four parts.



3.1.1 Blocks Browser

The Blocks Browser (top left) provides a selection of Unicode blocks.

3.1.2 Character Map Matrix

The Character Map Matrix (top right) shows all characters in the Unicode block selected. Cells that are grayed-out represent positions not yet assigned a character in Unicode.

Selecting a character and double-clicking it will place it in the selection field (bottom left).

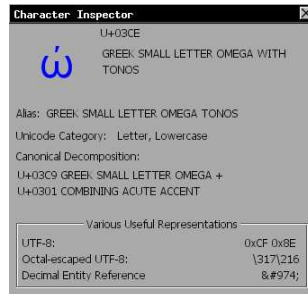
3.1.3 Selection Field

The Selection Field holds all characters selected from the Character Map Matrix as well as any directly typed in by the user.

3.1.4 Copy Button

Clicking the Copy button (bottom right) will copy the text in the selection to the pasteboard.

3.2 Character Inspector



The Character Inspector, accessible from the menu item “Inspector...” provides detailed information on the character currently selected in the Character Map Matrix.

- **Name**
The name of the character as presented in the Unicode standard version 4.0.
- **Alias**
The name of the character as presented in the Unicode standard version 1.0
- **Unicode Category**
The category of the character, such as “Letter, Uppercase” or “Mark, Non-spacing”.
- **Canonical Decomposition**
When a precomposed character is selected, shows how the same character can be constructed using a base and added combining characters.
- **Various Useful Representations**
Numerical representations of a Unicode character that might be used when the character can not be directly typed.
 - UTF-8: The character as a series of 8-bit hexadecimal values.

- Octal-escaped UTF-8: The character as a series of 8-bit octal values.
- Decimal entity reference: The representation of the character which can be used in HTML and XML.

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