

# Enhancing the writing support in GTK+

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# What's it about?

- Unicode standard, defines over 100,000 characters
- Font support in distros, tens of thousands of characters
- Current keyboard layout support: patchy
- **How to type more of them?**





# Status (1/3)

- GTK+ maintains own copy of table of compose sequences (from X.Org)
- Last sync: 800 sequences (in ~2001)
- Now, X.Org: >5000 compose sequences
- In GTK+ devel: full sync (to appear in: GNOME 2.24)
- All sequences with precomposed characters, supported

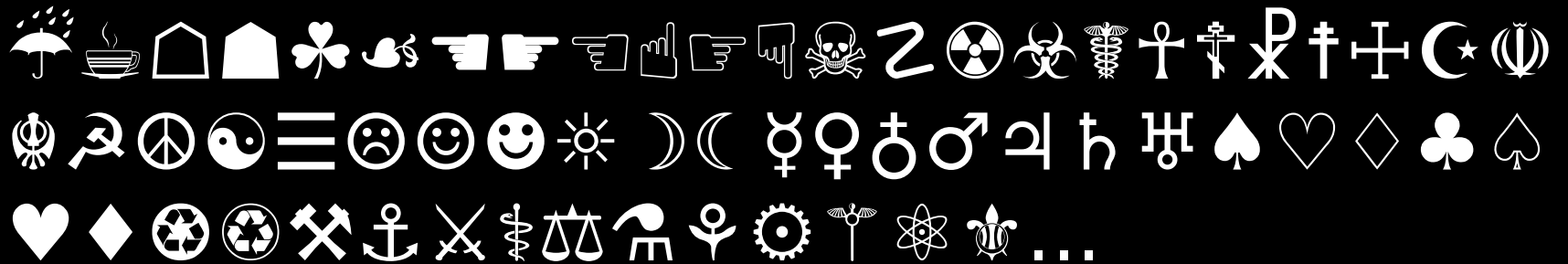
# Status (2/3)

- Script, easy sync with upstream
- Old: used 16KB in GTK+
- New: uses 27KB in GTK+ (6 times more sequences)
- New: Compact array still static (one-off use of 27KB in your session)
- Precomposed characters: no storage required (sequences inferred from glib)

# Status (3/3)

- Need help!!!

- Find mnemonics for



- Compose : - ) = 😊

- Compose t a o = ☯

- This would be an FDO project

# How to use?

- Compose sequences with dead keys?
  - All implicitly supported
  - Check your keyboard layout (in `/etc/X11/xkb/symbols/*`)
- Compose sequences with compose key?
  - See current list of sequences
  - To be added in Help file of Keyboard applet
  - For now,
    - [http://gitweb.freedesktop.org/p=xorg/lib/libX11.git;a=blob\\_plain;f=nls/en\\_US.UTF-8/Compose.pre](http://gitweb.freedesktop.org/p=xorg/lib/libX11.git;a=blob_plain;f=nls/en_US.UTF-8/Compose.pre)

# Demo

- Type accents
- Type funny characters
  - Compose sequences = mnemonics
  - oc=©, tm=™, ..=...
- Enable Compose key in Keyboard settings
  - (needs lots of searching to find the option)

# Thanks

- Matthias Clasen
- Tor Lillqvist

# Future work

- Support sequences with “combining diacritics”
  - Affects African languages, Cyrillic-based languages, etc
- Support sequences that produce 2+ characters
  - Can avoid SCIM!
  - Or should we *not* avoid SCIM?