Picture Fonts

welcome to a (beautiful) mess

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A Summary

• the macro package’s view: just a font like any other but it needs to configure some extra color related properties

• the engine’s view: depending on the technology a normal font that needs a bit special treatment or needs to be dealt with as collection of graphics

• the viewer’s view: regular outline glyphs or images tagged as kind of characters so that their unicode representation can be cut and paste

• the user’s view: more pictures than glyphs although some people one can communicate using them

So, in practice, for most TeX users it’s probably not a high priority font but more a fun one.
Technologies

As each vendor came up with something, we have to deal with a all kinds of formats. And or course, as eagerness pushes things on the market before it’s perfect we now have to deal with all of them.

- **overlapping glyphs**: this technique uses the colr and cpal tables and is actually a quite clean technology, you can combine in different ways
- **svg graphics**: this technique uses the svg table that contains a svg vector image
- **bitmap graphics**: this technique uses for instance sbix tables that can have various graphic images

The first two are already supported in the CONTÉXT font loader and processor for a while, the last one was added recently.

Only the overlapping method is useable for the tens of thousands of skin tone combinations of families, (kissing) couples, and professions.
Preparation

For now one has to enable the feature:

```
\definefontfeature[overlay][default][ccmp=yes, colr=yes, dist=yes]
\definefontfeature[svg] [default][svg=yes]
\definefontfeature[bitmap] [default][sbix=yes]

\definefontfeature [colored] [default]
  [cmcp=yes, dist=yes,
   colr=yes, svg=yes, sbix=yes]
```

Defining a font is not different from others

```
\definefont[MyEmojiFont] [seguiemj*overlay]
\definefontsynonym[emoji][seguiemj*overlay]
```

As is using:

```
{\MyEmojiFont\resolvedemoji{woman}}
\emoji{woman}
```
Accessing shapes

\definesymbol[man]  [\emoji{man}]
\definesymbol[woman][\emoji{woman}]
\definesymbol[girl]  [\emoji{girl}]
\definesymbol[boy]   [\emoji{boy}]

\definesymbol[family][\emoji{family man woman girl boy}]
\definefontsynonym[emoji][file:seguiemj.ttf*default,overlay]

\symbol[boy] \symbol[girl]  \symbol[man] \symbol[woman]
\symbol[family]
## Different fonts

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<thead>
<tr>
<th>Font</th>
<th>Style</th>
<th>Example</th>
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Ligatures

character 1F477 👪
skin modifier 1F3FE 🧊
ligature 1F477 1F3FE 👧
zero width joiner 0200D ⊹
female modifier 02640 0FE0F ⭐
the whole lot ⭐⭐

1F468 1F3FD 200D 1F33E 👪 man farmer medium skin tone
1F468 1F3FD 200D 1F373 👩 man cook medium skin tone
1F468 1F3FD 200D 1F393 👦 man student medium skin tone
1F468 1F3FD 200D 1F3A4 👨 man singer medium skin tone
1F468 1F3FD 200D 1F3A8 👤 man artist medium skin tone
1F468 1F3FD 200D 1F3EB 👸 man teacher medium skin tone
1F468 1F3FD 200D 1F3ED 👨 man factory worker medium skin tone
1F468 1F3FD 200D 1F4BB 👤 man technologist medium skin tone
1F468 1F3FD 200D 1F4BC 👤 man office worker medium skin tone
man mechanic medium skin tone
man scientist medium skin tone
man astronaut medium skin tone
Snippets
Using `\ShowEmoji[^man]`
man facepalming
man factory worker
man fairy
man farmer
man firefighter
man frowning
man genie
man gesturing no
man gesturing ok
man getting haircut
man getting massage
man golfing
man guard
man health worker
man in lotus position
man in manual wheelchair
man in motorized wheelchair
man in steamy room
man in suit levitating
man in tuxedo
man judge
man juggling
man kneeling
man lifting weights
man mage
man mechanic
man mountain biking
man office worker
man pilot
man playing handball
man playing water polo
man police officer
man pouting
man raising hand
man red hair
man rowing boat
man running
man scientist
man shoe
man shrugging
man singer
man standing
man student
man superhero
man supervillain
man surfing
man swimming
man teacher
man technologist
man tipping hand
man vampire
man walking
man wearing turban
man white hair
man with chinese cap
man with probing cane
man zombie
mango
mantelpiece clock
manual wheelchair
Recoloring Seguiem
\definecolor [emoji-red] [r=.4]
\definecolor [emoji-gray] [s=.5,t=.5,a=1]

\definefontcolororpalette
  [emoji-red]
  [emoji-red,emoji-gray]

\definefontfeature
  [seguiemj-r]
  [default]
  [ccmp=yes,dist=yes,colr=emoji-red]

\definefont
  [MyColoredEmojiR]
  [seguiemj*seguiemj-r @ 80pt]

\MyColoredEmojiR
  \emoji{man}
  \emoji{woman}
  \emoji{baby}
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