

Picture Fonts

welcome to a (beautiful) mess

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BachoTUG 2017

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 $\text{T}_{\text{E}}\text{X}$ 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 `CONTEXT` 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

seguiemj

default



overlay



emojionecolor-svginot

default



svg

emojionemozilla

default

overlay



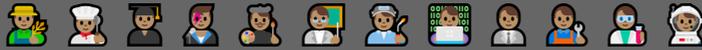
applecoloremoji

default

bitmap



Ligatures

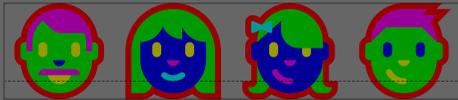
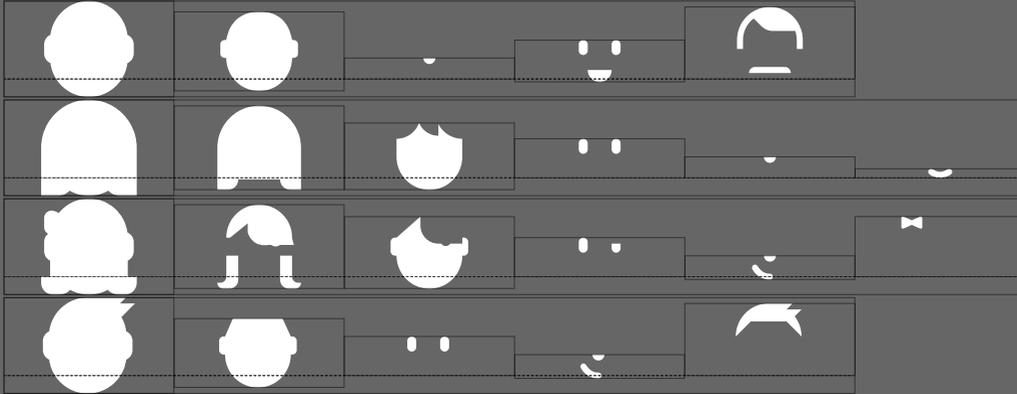


character	1F477	
skin modifier	1F3FE	
ligature	1F477 1F3FE	
zero width joiner	0200D	↑
female modifier	02640 0FE0F	
the whole lot		

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

1F468	1F3FD	200D	1F527		man mechanic medium skin tone
1F468	1F3FD	200D	1F52C		man scientist medium skin tone
1F468	1F3FD	200D	1F680		man astronaut medium skin tone

Snippets





Using \ShowEmoji[^man]

		man
		man artist
		man astronaut
		man bald
		man beard
		man biking
		man blond hair
		man bouncing ball
		man bowling
		man cartwheeling
		man climbing
		man construction worker
		man cook
		man curly hair
		man dancing
		man detective
		man elf



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

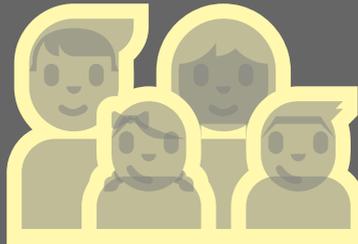
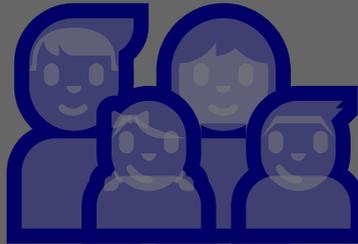
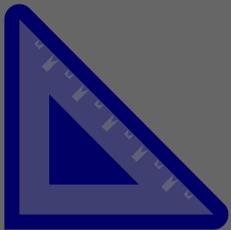


mango

mantelpiece clock

manual wheelchair

Recoloring Seguiem



```
\definecolor [emoji-red] [r=.4]
\definecolor [emoji-gray] [s=.5,t=.5,a=1]
```

```
\definefontcolorpalette
  [emoji-red]
  [emoji-red,emoji-gray]
```

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

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

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

Pallet \ShowEmojiPalettes[1]

1	1		3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
	25	26	27	28	29	30	31	32	33	34	35	36
	37	38	39	40	41	42	43	44	45	46	47	48
	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72
	73	74	75	76	77	78	79	80	81	82	83	84
	85	86	87	88	89	90	91	92	93	94	95	96
	97	98	99	100	101	102	103	104	105	106	107	108
	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132
	133	134	135	136	137	138	139	140	141	142	143	144
	145	146	147	148	149	150	151	152	153	154	155	156
	157	158	159	160	161	162	163	164	165	166	167	168
	169	170	171	172	173	174	175					