

Installed Font Test

This file shows the fonts installed and accessible to Quarto/Matplotlib. It's used partly to audit the latest Docker/Podman image release and partly to allow students to explore what is available in a reasonably intuitive fashion.

Raw List

Taken directly from Matplotlib's font cache:

```
1 ! grep '"name"' ~/.cache/matplotlib/fontlist-v390.json | sort | uniq
```

```
"name": "Big Shoulders Display",
"name": "Bitstream Charter",
"name": "Computer Modern",
"name": "Courier",
"name": "Cousine",
"name": "DejaVu Sans Display",
"name": "DejaVu Sans Mono",
"name": "DejaVu Sans",
"name": "DejaVu Serif Display",
"name": "DejaVu Serif",
"name": "EB Garamond",
"name": "Font Awesome 5 Brands",
"name": "Font Awesome 5 Free",
"name": "Font Awesome 6 Brands",
"name": "Font Awesome 6 Free",
"name": "Hanken Grotesk",
"name": "Helvetica",
"name": "ITC Avant Garde Gothic",
"name": "ITC Bookman",
"name": "ITC Zapf Chancery",
"name": "ITC Zapf Dingbats",
"name": "Inconsolata Condensed",
"name": "Inconsolata Expanded",
"name": "Inconsolata ExtraCondensed",
"name": "Inconsolata ExtraExpanded",
"name": "Inconsolata SemiCondensed",
"name": "Inconsolata SemiExpanded",
"name": "Inconsolata UltraCondensed",
"name": "Inconsolata UltraExpanded",
"name": "Inconsolata",
```

"name": "Inter Tight",
 "name": "LMMono10",
 "name": "LMMonoCaps10",
 "name": "LMMonoLt10",
 "name": "LMMonoLtCond10",
 "name": "LMMonoProp10",
 "name": "LMMonoPropLt10",
 "name": "LMMonoSlant10",
 "name": "LMRoman10",
 "name": "LMRomanCaps10",
 "name": "LMRomanDemi10",
 "name": "LMRomanDunh10",
 "name": "LMRomanSlant10",
 "name": "LMRomanUnsl10",
 "name": "LMSans10",
 "name": "LMSansDemiCond10",
 "name": "LMSansQuot8",
 "name": "Liberation Mono",
 "name": "Liberation Sans",
 "name": "Liberation Serif",
 "name": "Lobster",
 "name": "Micro 5",
 "name": "New Century Schoolbook",
 "name": "Palatino",
 "name": "Roboto Flex",
 "name": "Roboto Mono",
 "name": "Roboto Slab",
 "name": "STIXGeneral",
 "name": "STIXNonUnicode",
 "name": "STIXSizeFiveSym",
 "name": "STIXSizeFourSym",
 "name": "STIXSizeOneSym",
 "name": "STIXSizeThreeSym",
 "name": "STIXSizeTwoSym",
 "name": "Silkscreen",
 "name": "Source Code Pro",
 "name": "Source Sans 3",
 "name": "Source Serif 4 18pt",
 "name": "Source Serif 4 36pt",
 "name": "Source Serif 4 48pt",
 "name": "Source Serif 4",
 "name": "Spectral SC",
 "name": "Spectral",
 "name": "Symbol",
 "name": "Times",
 "name": "Ubuntu Condensed",
 "name": "Ubuntu Mono",
 "name": "Ubuntu",
 "name": "Utopia",
 "name": "ZapfDingbats",
 "name": "cmb10",
 "name": "cmex10",

```

"name": "cmmi10",
"name": "cmr10",
"name": "cmss10",
"name": "cmsy10",
"name": "cmtt10",

```

Formatted List

Taken from Matplotlib's font manager tool.

Please note that fonts may not render correctly in Safari, but will do so in Google Chrome and other browsers. The *list* is correct and these fonts *can* be used to render PDFs from Quarto.

```

1 from matplotlib import font_manager
2 from IPython.core.display import HTML
3
4 flist = font_manager.findSystemFonts()
5 names = []
6 for fname in flist:
7     try:
8         names.append(font_manager.FontProperties(fname=fname).get_name())
9     except RuntimeError:
10         print(f"- Problem detected with {fname}, skipping...") # Think the issue is
11
12 print(f"Found {len(set(names))} valid fonts.")
13
14 def make_html(fontname):
15     return "<p><span style='font-family:{font}; font-size: 20px;'>{font}</span></p>"
16
17 code = "\n".join([make_html(font) for font in sorted(set(names))])
18
19 HTML("<div style='column-count: 2;'>{}</div>".format(code))

```

Found 42 valid fonts.

<IPython.core.display.HTML object>

Plotting Test

A quick test to ensure that a font is rendering correctly.

```

1 import numpy as np
2 import matplotlib.pyplot as plt
3 x = np.random.random(20)
4 y = np.random.random(20)
5
6 ff = 'SPectral SC'
7 tfont = {'fontname':ff}
8 bfont = {'fontname':ff, 'weight':'bold', 'horizontalalignment':'left'}
9 afont = {'fontname':ff}

```

```

10
11 f,ax = plt.subplots(1,1,figsize=(7,5))
12 plt.scatter(x,y)
13 f.suptitle("Testing Font Spec", x=0.025, ha='left', size=24, **tfont)
14 ax.set_ylabel('Median Price', size=20, **afont)
15 ax.set_xlabel('Count', size=20, **afont)

```

```
Text(0.5, 0, 'Count')
```

TESTING FONT SPEC

