

# The fontspec test suite

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## Preamble

The examples shown in the remainder of the document are generated directly from the code shown alongside. As well as being good minimal examples, these tests are useful to ensure that changes to fontspec don't affect old behaviour.

When the test suite is run, the new output is compared pixel by pixel with that shown here and warnings produced if the outputs are not identical (within a small tolerance to account for rounding errors).

Tests with a name that begins with 'X' are processed with `xelatex` only; 'L' with `lualatex`; and 'F' with both. In the latter case, the output from both engines is compared with each other, ensuring that the package is consistent cross-platform.

To generate tests yourself, write a new file in the `testsuite/` folder with filename

`⟨F,L,X⟩⟨num⟩⟨letter⟩.ltx`

according to the naming scheme above and the following numbering scheme. If you are writing a new test entirely, increment the `⟨num⟩`; if you are writing a variation on an old test, increment the `⟨letter⟩`. No need to be too fussy, though.

After writing the new test, run

`make initest`

This will generate the reference output (`*.safe.pdf`) from which to check all future tests. After any changes have been made to fontspec, the entire test suite is compiled with

`make check`

If you want to run just a single test, use

`make ⟨testname⟩`

(but this syntax *may* be fragile and need to be changed in the future).

## 1 Test L001a

```
\documentclass{testsuite}
\usepackage{fontspec}
\setmainfont{TeX Gyre Pagella}
\begin{document}
Hello, moon!
\end{document}
```

Hello, moon!

## 2 Test L002a

```
\documentclass{testsuite}
\usepackage{fontspec}
\setmainfont[Color=FF0000]{Georgia}
\def\1{abcABC}\def\2{XYZxyz}
\def\test{\1\textsf{\2}\1\}
\begin{document}
\setsansfont{Verdana}
\test
\setsansfont[Scale=0.5]{Verdana}
\test
\setsansfont[Scale=MatchLowercase]{Verdana}
\test
\setsansfont[Scale=MatchUppercase]{Verdana}
\test
\end{document}
```

abcABCXYZxyzabcABC  
abcABC<sub>XYZxyz</sub>abcABC  
abcABCXYZxyzabcABC  
abcABCXYZxyzabcABC

## 3 Test L003a

```
\documentclass{testsuite}
\usepackage{fontspec}
\usepackage{xcolor}
\begin{document}
{\fontspec[Color=5500FF]{Verdana}Test}

{\fontspec[Color=red]{Verdana}Test} vs
{\color{red}\fontspec{Verdana}Test}

\definecolor{Foo}{rgb}{0.3,0.4,0.5}
{\fontspec[Color=Foo]{Verdana}Test} vs
{\color{Foo}\fontspec{Verdana}Test}
\end{document}
```

Test  
Test vs Test  
Test vs Test

## 4 Test L003b

```
\documentclass{testsuite}
\usepackage{fontspec}
\usepackage{xcolor}
\begin{document}
\fontspec[Color=red]{Verdana}
Test

\fontspec[
  Color=red,Opacity=0.5
]{Verdana}
Test
\end{document}
```

Test  
Test

## 5 Test L005a

```
\documentclass{testsuite}
\usepackage{fontspec}
\begin{document}
\Huge
\fontspec{Junicode}
Before
\addfontfeature{StylisticSet=6}
After
\end{document}
```

Before After

## 6 Test L006a

```
\documentclass{testsuite}
\usepackage{fontspec}
\begin{document}
\def\text{\fbox{\parbox{1.55cm}{%
  EXAMPLE HYPHENATION%
}}\hfill}

\fontspec{TeX Gyre Termes}
\addfontfeature{HyphenChar=None}
\text
\addfontfeature{HyphenChar={+}}
\text
\addfontfeature{HyphenChar={"2A}}
\text
\end{document}
```

EXAMPLE  
HYPHENATION

EX+  
AMPLE  
HY+  
PHEN+  
ATION

EX\*  
AMPLE  
HY\*  
PHEN\*  
ATION

## 7 Test X001a

```
\documentclass{testsuite}
\usepackage{fontspec}
\setmainfont{TeX Gyre Pagella}
\begin{document}
Hello, sun!
\end{document}
```

Hello, sun!

## 8 Test X002a

```
\documentclass{testsuite}
\usepackage{fontspec}
\setmainfont[Color=FF0000]{Georgia}
\def\1{abcABC}\def\2{XYZxyz}
\def\test{\1\textsf{\2}\1\}
\begin{document}
\setsansfont{Verdana}
\test
\setsansfont[Scale=0.5]{Verdana}
\test
\setsansfont[Scale=MatchLowercase]{Verdana}
\test
\setsansfont[Scale=MatchUppercase]{Verdana}
\test
\end{document}
```

abcABCXYZxyzabcABC  
abcABC<sup>XYZxyz</sup>abcABC  
abcABCXYZxyzabcABC  
abcABCXYZxyzabcABC

## 9 Test X003a

```
\documentclass{testsuite}
\usepackage{fontspec}
\usepackage{xcolor}
\begin{document}
{\fontspec[Color=5500FF]{Verdana}Test}

{\fontspec[Color=red]{Verdana}Test} vs
{\color{red}\fontspec{Verdana}Test}

\definecolor{Foo}{rgb}{0.3,0.4,0.5}
{\fontspec[Color=Foo]{Verdana}Test} vs
{\color{Foo}\fontspec{Verdana}Test}
\end{document}
```

Test  
Test vs Test  
Test vs Test

## 10 Test X004a

```
\documentclass{testsuite}
\usepackage{fontspec}
\usepackage{xcolor}
\begin{document}
\fontspec[ SizeFeatures={
  {Size={-8}, Font=TeX Gyre Bonum Italic, Color=AA0000},
  {Size={8-14}, Color=00AA00},
  {Size={14-}, Color=0000AA}} ]{TeX Gyre Chorus}

{\scriptsize Small\par} Normal size\par {\Large Large\par}
\end{document}
```

*Small*  
*Normal size*  
*Large*

# 11 Test X005a

```
\documentclass{testsuite}
\usepackage{fontspec}
\begin{document}
\Huge
\fontspec{Junicode}
Before
\addfontfeature{StylisticSet=6}
After
\end{document}
```

Before After

# 12 Test X006a

```
\documentclass{testsuite}
\usepackage{fontspec}
\begin{document}
\def\text{\fbox{\parbox{1.55cm}{%
EXAMPLE HYPHENATION%
}}\hfill}

\fontspec{TeX Gyre Termes}
\addfontfeature{HyphenChar=None}
\text
\addfontfeature{HyphenChar={+}}
\text
\addfontfeature{HyphenChar={"2A}}
\text
\end{document}
```

EXAMPLE  
HYPHENATION

EXAMPLE  
HY+  
PHEN+  
ATION

EXAMPLE  
HY\*  
PHEN\*  
ATION