

The unicode-math test suite

Will Robertson

Compiled: October 28, 2009

Preamble

The following pieces of output are generated from the code shown. As well as being good minimal examples, these tests are useful to ensure that new bugs 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.

1 Test 001a

```
\input{umtest-preamble}  
\usepackage[math-style=TeX]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

2 Test 001b

```
\input{umtest-preamble}  
\usepackage[math-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

3 Test 001c

```
\input{umtest-preamble}  
\usepackage[math-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

4 Test 001d

```
\input{umtest-preamble}  
\usepackage[math-style=French]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

5 Test 001e

```
\input{umtest-preamble}  
\usepackage[math-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

6 Test 002a

```
\input{umtest-preamble}  
\usepackage[math-style=TeX]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \GREEKtext\  
\[ \greektext\  
\[ \GREEKmath\  
\[ \greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθικκλμνξοππρρςστυφφχψω
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθικκλμνξοππρρςστυφφχψω

7 Test 002b

```
\input{umtest-preamble}  
\usepackage[math-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \GREEKtext\  
\[ \greektext\  
\[ \GREEKmath\  
\[ \greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθικκλμνξοππρρςστυφφχψω
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθικκλμνξοππρρςστυφφχψω

8 Test 002c

```
\input{umtest-preamble}  
\usepackage[math-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \GREEKtext\  
\[ \greektext\  
\[ \GREEKmath\  
\[ \greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθικκλμνξοππρρςστυφφχψω
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθικκλμνξοππρρςστυφφχψω

9 Test 002d

```
\input{umtest-preamble}  
\usepackage[math-style=French]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω

10 Test 002e

```
\input{umtest-preamble}  
\usepackage[math-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω

11 Test 003a

```
\input{umtest-preamble}  
\usepackage[bold-style=TeX]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathbfup\  
\[\LATINmathbfit\  
\[\latinmathbfup\  
\[\latinmathbfit\  
\[\numbersmathbfup\  
\end{document}
```

ΑΒΓΔΕΦΓΗΙJKLMNΟPQRSTU VWXYZ
ΑΒΓΔΕΦΓΗΙJKLMNΟPQRSTU VWXYZ
αβcdefghijklmnopqrstu vwxyz
αβcdefghijklmnopqrstu vwxyz
0123456789

12 Test 003b

```
\input{umtest-preamble}
\usepackage[bold-style=TeX]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{GREEKmathbfup}\]
\[\mathbf{GREEKmathbfit}\]
\[\mathbf{greekmathbfup}\]
\[\mathbf{greekmathbfit}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

13 Test 003c

```
\input{umtest-preamble}
\usepackage[bold-style=TeX]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{LATINmath}\]
\[\mathbf{LATINtext}\]
\[\mathbf{latinmath}\]
\[\mathbf{latintext}\]
\[\mathbf{0123456789}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥVWXYZ
ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

14 Test 003d

```
\input{umtest-preamble}
\usepackage[bold-style=TeX]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{GREEKmath}\]
\[\mathbf{GREEKtext}\]
\[\mathbf{greekmath}\]
\[\mathbf{greektext}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

15 Test 003e

```
\input{umtest-preamble}  
\usepackage[bold-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{LATINmathbfup}\]  
\[\mathbf{LATINmathbfit}\]  
\[\mathbf{latinmathbfup}\]  
\[\mathbf{latinmathbfit}\]  
\[\mathbf{numbersmathbfup}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

16 Test 003f

```
\input{umtest-preamble}  
\usepackage[bold-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{GREEKmathbfup}\]  
\[\mathbf{GREEKmathbfit}\]  
\[\mathbf{greekmathbfup}\]  
\[\mathbf{greekmathbfit}\]  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω
αβγδεζηθικλμνξοπρρςστυφφχψω

17 Test 003g

```
\input{umtest-preamble}  
\usepackage[bold-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{LATINmath}\]  
\[\mathbf{LATINtext}\]  
\[\mathbf{latinmath}\]  
\[\mathbf{latintext}\]  
\[\mathbf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

18 Test 003h

```
\input{umtest-preamble}  
\usepackage[bold-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{\GREEKmath\}]  
\[\mathbf{\GREEKtext\}]  
\[\mathbf{\greekmath\}]  
\[\mathbf{\greektext\}]  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

19 Test 003i

```
\input{umtest-preamble}  
\usepackage[bold-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathbfup\]  
\[\LATINmathbfit\]  
\[\latinmathbfup\]  
\[\latinmathbfit\]  
\[\numbersmathbfup\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

20 Test 003j

```
\input{umtest-preamble}  
\usepackage[bold-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKmathbfup\]  
\[\GREEKmathbfit\]  
\[\greekmathbfup\]  
\[\greekmathbfit\]  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

21 Test 003k

```
\input{umtest-preamble}  
\usepackage[bold-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{LATINmath}\]  
\[\mathbf{LATINtext}\]  
\[\mathbf{latinmath}\]  
\[\mathbf{latintext}\]  
\[\mathbf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxy
abcdefghijklmnopqrstuvwxy
0123456789

22 Test 003l

```
\input{umtest-preamble}  
\usepackage[bold-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{GREEKmath}\]  
\[\mathbf{GREEKtext}\]  
\[\mathbf{greekmath}\]  
\[\mathbf{greektext}\]  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω
αβγδεζηθικλμνξοπρρςστυφφχψω

23 Test 003m

```
\input{umtest-preamble}  
\usepackage[bold-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathbfup\]  
\[\LATINmathbfifit\]  
\[\latinmathbfup\]  
\[\latinmathbfifit\]  
\[\numbersmathbfup\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxy
abcdefghijklmnopqrstuvwxy
0123456789

24 Test 003n

```
\input{umtest-preamble}  
\usepackage[bold-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKmathbfup\  
\[\GREEKmathbfit\  
\[\greekmathbfup\  
\[\greekmathbfit\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθθικκλμνξοπωρρςστυφφχψω
αβγδεζηθθικκλμνξοπωρρςστυφφχψω

25 Test 003o

```
\input{umtest-preamble}  
\usepackage[bold-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf\{LATINmath\  
\[\mathbf\{LATINtext\  
\[\mathbf\{latinmath\  
\[\mathbf\{latinintext\  
\[\mathbf\{0123456789\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥVWXYZ
ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥVWXYZ
αβcdefghijklmnopqrstuvwxyz
αβcdefghijklmnopqrstuvwxyz
0123456789

26 Test 003p

```
\input{umtest-preamble}  
\usepackage[bold-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf\{GREEKmath\  
\[\mathbf\{GREEKtext\  
\[\mathbf\{greekmath\  
\[\mathbf\{greektext\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθθικκλμνξοπωρρςστυφφχψω
αβγδεζηθθικκλμνξοπωρρςστυφφχψω

27 Test 004a

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathsfup\  
\[\LATINmathsfit\  
\[\latinmathsfup\  
\[\latinmathsfit\  
\[\numbersmathsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

28 Test 004b

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsf{\LATINtext}\  
\[\mathsf{\LATINmath}\  
\[\mathsf{\latintext}\  
\[\mathsf{\latinmath}\  
\[\mathsf{0123456789}\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

29 Test 004c

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathsfup\  
\[\LATINmathsfit\  
\[\latinmathsfup\  
\[\latinmathsfit\  
\[\numbersmathsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

30 Test 004d

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsf{\backslash LATINtext}\]  
\[\mathsf{\backslash LATINmath}\]  
\[\mathsf{\backslash latintext}\]  
\[\mathsf{\backslash latinmath}\]  
\[\mathsf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

31 Test 004e

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\backslash LATINmathsfup\  
\[\backslash LATINmathsfit\  
\[\backslash latinmathsfup\  
\[\backslash latinmathsfit\  
\[\backslash numbersmathsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

32 Test 004f

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsf{\backslash LATINtext}\]  
\[\mathsf{\backslash LATINmath}\]  
\[\mathsf{\backslash latintext}\]  
\[\mathsf{\backslash latinmath}\]  
\[\mathsf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

33 Test 005a

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

34 Test 005b

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφθχψω
αβγδεζηθικλμνξοπρρςστυφθχψω

35 Test 005c

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\[ \mathbf{fup} \]  
\[ \mathbf{fit} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

36 Test 005d

```
\input{umtest-preamble}
\usepackage[sans-style=upright]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\mathbfsf\GREEKmath\]
\[\mathbfsf\GREEKtext\]
\[\mathbfsf\greekmath\]
\[\mathbfsf\greektext\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικιλμνξοπαρρςστυφφχψω
αβγδεεζηθθικιλμνξοπαρρςστυφφχψω

37 Test 005e

```
\input{umtest-preamble}
\usepackage[sans-style=italic]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\LATINmathbfsfup\]
\[\LATINmathbfsfit\]
\[\latinmathbfsfup\]
\[\latinmathbfsfit\]
\[\numbersmathbfsfup\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

38 Test 005f

```
\input{umtest-preamble}
\usepackage[sans-style=italic]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\GREEKmathbfsfup\]
\[\GREEKmathbfsfit\]
\[\greekmathbfsfup\]
\[\greekmathbfsfit\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικιλμνξοπαρρςστυφθχψω
αβγδεεζηθθικιλμνξοπαρρςστυφθχψω

39 Test 005g

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\mathbfsf\LATINmath\  
\[\mathbfsf\LATINtext\  
\[\mathbfsf\latinmath\  
\[\mathbfsf\latintext\  
\[\mathbfsf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

40 Test 005h

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\mathbfsf\GREEKmath\  
\[\mathbfsf\GREEKtext\  
\[\mathbfsf\greekmath\  
\[\mathbfsf\greektext\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικιμνξοπωρρςστυφφχψω
αβγδεεζηθθικιμνξοπωρρςστυφφχψω

41 Test 005i

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\LATINmathbfsfup\  
\[\LATINmathbfsfit\  
\[\latinmathbfsfup\  
\[\latinmathbfsfit\  
\[\numbersmathbfsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

42 Test 005j

```
\input{umtest-preamble}
\usepackage[sans-style=literal]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\GREEKmathbbsfup\]
\[\GREEKmathbbsffit\]
\[\greekmathbbsfup\]
\[\greekmathbbsffit\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικλμνξοπαρρςστυφθχψω
αβγδεεζηθθικλμνξοπαρρςστυφθχψω

43 Test 005k

```
\input{umtest-preamble}
\usepackage[sans-style=literal]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\mathbbsf\LATINmath\]
\[\mathbbsf\LATINtext\]
\[\mathbbsf\latinmath\]
\[\mathbbsf\latintext\]
\[\mathbbsf{0123456789}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
0123456789

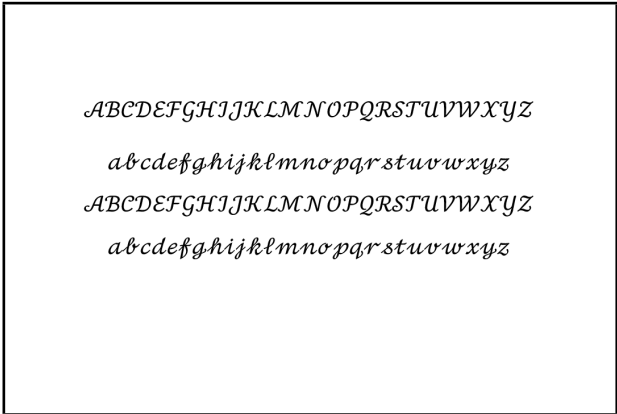
44 Test 005l

```
\input{umtest-preamble}
\usepackage[sans-style=literal]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\mathbbsf\GREEKmath\]
\[\mathbbsf\GREEKtext\]
\[\mathbbsf\greekmath\]
\[\mathbbsf\greektext\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικλμνξοπαρρςστυφθχψω
αβγδεεζηθθικλμνξοπαρρςστυφθχψω

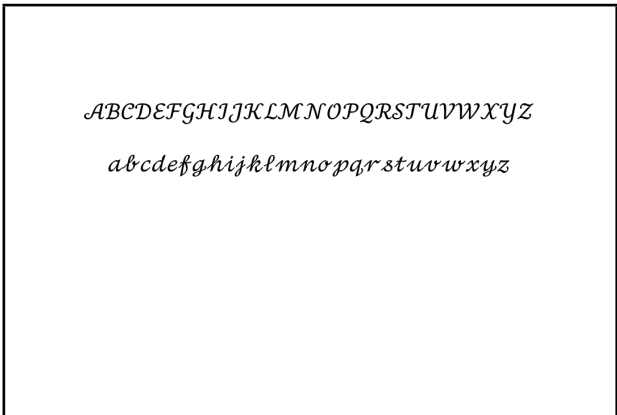
45 Test 010a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathscr{\text{LATINtext}}\]
\[\mathscr{\text{latintext}}\]
\[\mathscr{\text{LATINmath}}\]
\[\mathscr{\text{latinmath}}\]
\end{document}
```



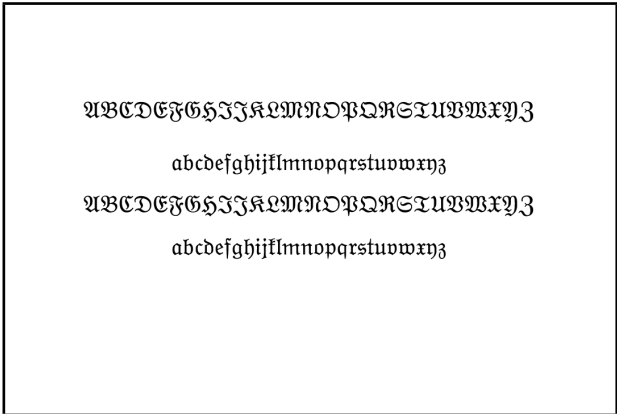
46 Test 010b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\text{LATINmathscr}\]
\[\text{latinmathscr}\]
\[\text{reservedmathscr}\]
\end{document}
```



47 Test 010c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathfrak{\text{LATINtext}}\]
\[\mathfrak{\text{latintext}}\]
\[\mathfrak{\text{LATINmath}}\]
\[\mathfrak{\text{latinmath}}\]
\end{document}
```



48 Test 010d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathfrak{\}]
\[\latinmathfrak{\}]
\[\reservedmathfrak{\}]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

49 Test 011a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathup{\LATINtext}\]
\[\mathup{\latintext}\]
\[\mathup{\LATINmath}\]
\[\mathup{\latinmath}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

50 Test 011b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathup{\GREEKtext}\]
\[\mathup{\greektext}\]
\[\mathup{\GREEKmath}\]
\[\mathup{\greekmath}\]
\end{document}
```

ABΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφχψω
ABΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφχψω

51 Test 012a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathit{\LATINText}\]  
\[\mathit{\latintext}\]  
\[\mathit{\LATINmath}\]  
\[\mathit{\latinmath}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

52 Test 012b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathit{\GREEKtext}\]  
\[\mathit{\greektext}\]  
\[\mathit{\GREEKmath}\]  
\[\mathit{\greekmath}\]  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ

αβγδεζηθικλμνξοπρρςστυφχψω

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ

αβγδεζηθικλμνξοπρρςστυφχψω

53 Test 013a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbb{\LATINText}\]  
\[\mathbb{\latintext}\]  
\[\mathbb{\LATINmath}\]  
\[\mathbb{\latinmath}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

54 Test 013b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbb{0123456789}\]
\[\numbersmathbb{\}]
\end{document}
```

0123456789

0123456789

55 Test 013c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbb{\}]
\[\latinmathbb{\}]
\[\reservedmathbb{\}]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

56 Test 013d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{STIXGeneral}
\begin{document}
\[\mathbb{\pi\Gamma}\quad\mathbb{????}\]
\[\mathbb{\sum}_0^1\]
\[\mathbb{\Sigma}_0^1\]
\[\Bbbsum_0^1\]
\end{document}
```

$\pi\Gamma$ $\pi\Gamma$

\sum_0^1

\sum_0^1

\sum_0^1

57 Test 013e

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbb{it}{Ddei}\qquad\mathbb{it}{Ddei}\]  
\end{document}
```

\mathbb{Ddei} \mathbb{Ddei}

58 Test 014a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsfup{\LATINText}\]  
\[\mathsfup{\latintext}\]  
\[\mathsfup{\LATINmath}\]  
\[\mathsfup{\latinmath}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

59 Test 014b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsfup{0123456789}\]  
\[\numbersmathsfup\]  
\end{document}
```

0123456789

0123456789

60 Test 014c

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

61 Test 015a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

62 Test 015b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \mathsf{up} \]  
\[ \mathsf{up} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

63 Test 016a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Asana Math}  
\begin{document}  
\[\mathhtt{\backslash LATINtext}\]  
\[\mathhtt{\backslash latintext}\]  
\[\mathhtt{\backslash LATINmath}\]  
\[\mathhtt{\backslash latinmath}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

64 Test 016b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Asana Math}  
\begin{document}  
\[\mathhtt{0123456789}\]  
\[\numbersmathtt\]  
\end{document}
```

0123456789
0123456789

65 Test 016c

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Asana Math}  
\begin{document}  
\[\backslash LATINmathtt\]  
\[\backslash latinmathtt\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

66 Test 017a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{scr}\{\text{LATINtext}\}\]
\[\mathbf{scr}\{\text{latintext}\}\]
\[\mathbf{scr}\{\text{LATINmath}\}\]
\[\mathbf{scr}\{\text{latinmath}\}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

67 Test 017b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\text{LATIN}\mathbf{scr}\]
\[\text{latin}\mathbf{scr}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

68 Test 017c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{frak}\{\text{LATINtext}\}\]
\[\mathbf{frak}\{\text{latintext}\}\]
\[\mathbf{frak}\{\text{LATINmath}\}\]
\[\mathbf{frak}\{\text{latinmath}\}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

69 Test 017d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\backslash\mathrm{LATINmathbfrac}\]
\[\backslash\mathrm{latinmathbfrac}\]
\end{document}
```

abcdefghijklmnopqrstuvwxyz

70 Test 018a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbfup{\text{\texttt{\textbackslash LATINtext}}}\]
\[\mathbfup{\text{\texttt{\textbackslash latintext}}}\]
\[\mathbfup{\text{\texttt{\textbackslash LATINmath}}}\]
\[\mathbfup{\text{\texttt{\textbackslash latinmath}}}\]
\[\mathbfup{\text{\texttt{\textbackslash 0123456789}}}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

71 Test 018b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{\uparrow}\text{\GREEKtext}\]
\[\mathbf{\uparrow}\text{\greektext}\]
\[\mathbf{\uparrow}\text{\GREEKmath}\]
\[\mathbf{\uparrow}\text{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθθικλμνξοπρρςστυφχψω
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθθικλμνξοπρρςστυφχψω

72 Test 019a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{fit}\{\text{LATINtext}\}\]
\[\mathbf{fit}\{\text{latintext}\}\]
\[\mathbf{fit}\{\text{LATINmath}\}\]
\[\mathbf{fit}\{\text{latinmath}\}\]
\[\mathbf{fit}\{0123456789\}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

73 Test 019b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{fit}\{\text{GREEKtext}\}\]
\[\mathbf{fit}\{\text{greektext}\}\]
\[\mathbf{fit}\{\text{GREEKmath}\}\]
\[\mathbf{fit}\{\text{greekmath}\}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεζηθικλμνξοπρρςστυφφχψω

74 Test 020a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{fsfit}\{\text{LATINtext}\}\]
\[\mathbf{fsfit}\{\text{latintext}\}\]
\[\mathbf{fsfit}\{\text{LATINmath}\}\]
\[\mathbf{fsfit}\{\text{latinmath}\}\]
\[\mathbf{fsfit}\{0123456789\}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

75 Test 020b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{STIXGeneral-Bold}
\begin{document}
\[\mathbfsfup{\GREEKtext}\]
\[\mathbfsfup{\greektext}\]
\[\mathbfsfup{\GREEKmath}\]
\[\mathbfsfup{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθδικκλμνξοπρρςστυφφχψω
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθδικκλμνξοπρρςστυφφχψω

76 Test 021a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbfsfit{\LATINtext}\]
\[\mathbfsfit{\latintext}\]
\[\mathbfsfit{\LATINmath}\]
\[\mathbfsfit{\latinmath}\]
\[\mathbfsfit{0123456789}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

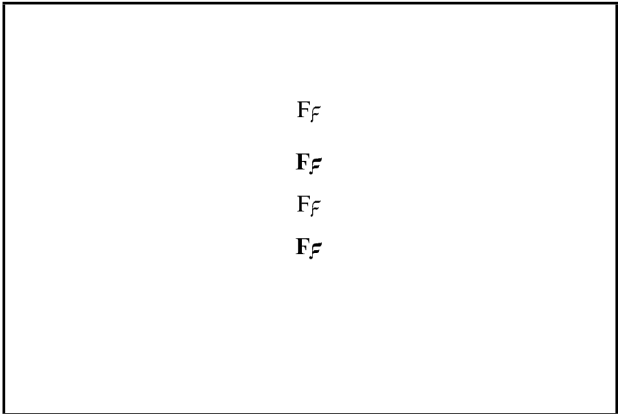
77 Test 021b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{STIXGeneral-BoldItalic}
\begin{document}
\[\mathbfsfit{\GREEKtext}\]
\[\mathbfsfit{\greektext}\]
\[\mathbfsfit{\GREEKmath}\]
\[\mathbfsfit{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθδικκλμνξοπρρςστυφφχψω
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθδικκλμνξοπρρςστυφφχψω

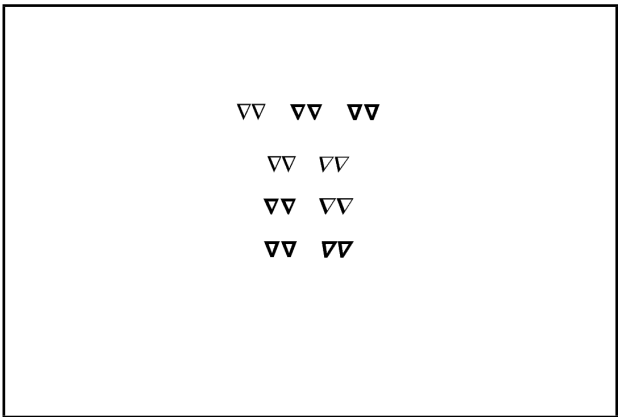
78 Test 030a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{FreeSerif}
\begin{document}
\[\mathbb{F}\]
\[\mathbb{F}\]
\[\mathup{\mathbb{F}}\]
\[\mathbf{\mathbb{F}}\]
\end{document}
```



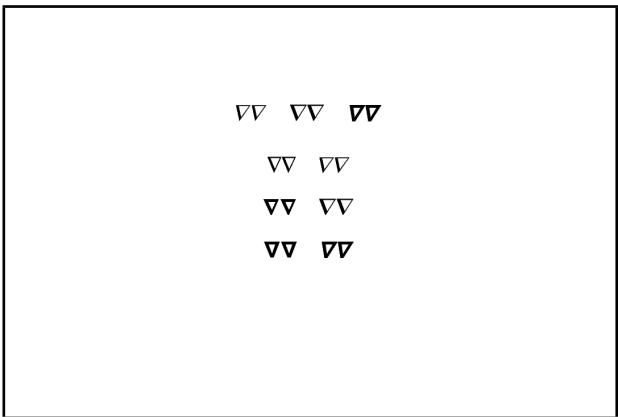
79 Test 031a

```
\input{umtest-preamble}
\usepackage[nabla=upright]{unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[\mathbb{\nabla} \quad \mathbb{\nabla} \quad \mathbb{\nabla}\]
\[\mathup{\mathbb{\nabla}} \quad \mathit{\mathbb{\nabla}}\]
\[\mathbfup{\mathbb{\nabla}} \quad \mathbf{\mathbb{\nabla}}\]
\[\mathbfsfup{\mathbb{\nabla}} \quad \mathbfsf{\mathbb{\nabla}}\]
\end{document}
```



80 Test 031b

```
\input{umtest-preamble}
\usepackage[nabla=italic]{unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[\mathbb{\nabla} \quad \mathbb{\nabla} \quad \mathbb{\nabla}\]
\[\mathup{\mathbb{\nabla}} \quad \mathit{\mathbb{\nabla}}\]
\[\mathbfup{\mathbb{\nabla}} \quad \mathbf{\mathbb{\nabla}}\]
\[\mathbfsfup{\mathbb{\nabla}} \quad \mathbfsf{\mathbb{\nabla}}\]
\end{document}
```



81 Test 032a

```
\input{umtest-preamble}
\usepackage[partial=upright]{unicode-math}
\setmathfont{Asana Math}
\begin{document}
\[\partial \quad \partial \quad \partial\]
\[\mathup{\partial} \quad \mathit{\partial}\]
\[\mathbfup{\partial} \quad \mathbfit{\partial}\]
\[\mathbfsup{\partial} \quad \mathbfsfit{\partial}\]
\end{document}
```

$\partial \quad \partial \quad \partial$

$\mathup{\partial} \quad \mathit{\partial}$

$\mathbfup{\partial} \quad \mathbfit{\partial}$

$\mathbfsup{\partial} \quad \mathbfsfit{\partial}$

82 Test 032b

```
\input{umtest-preamble}
\usepackage[partial=italic]{unicode-math}
\setmathfont{Asana Math}
\begin{document}
\[\partial \quad \partial \quad \partial\]
\[\mathup{\partial} \quad \mathit{\partial}\]
\[\mathbfup{\partial} \quad \mathbfit{\partial}\]
\[\mathbfsup{\partial} \quad \mathbfsfit{\partial}\]
\end{document}
```

$\partial \quad \partial \quad \partial$

$\mathup{\partial} \quad \mathit{\partial}$

$\mathbfup{\partial} \quad \mathbfit{\partial}$

$\mathbfsup{\partial} \quad \mathbfsfit{\partial}$

83 Test 033a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\begin{document}
\setmathfont[math-style=TeX]{Free Serif}
\[\mathup{1} \quad \mathup{2}\]
\[\mathit{1} \quad \mathit{2}\]
\setmathfont[math-style=upright]{Free Serif}
\[\mathup{1} \quad \mathup{2}\]
\[\mathit{1} \quad \mathit{2}\]
\end{document}
```

$\mathup{1} \quad \mathup{2}$

$\mathit{1} \quad \mathit{2}$

$\mathup{1} \quad \mathup{2}$

$\mathit{1} \quad \mathit{2}$

$\mathup{1} \quad \mathup{2}$

$\mathit{1} \quad \mathit{2}$

$\mathup{1} \quad \mathup{2}$

84 Test 100a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left( \left( \left( \left( \left( \left( x^2 \right)^2 \right)^2 \right)^2 \right)^2 \right)^2 \right)
\end{document}
```

$$\left(\left(\left(\left(\left(\left(x^2\right)^2\right)^2\right)^2\right)^2\right)^2\right)$$

85 Test 100b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left[ \left[ \left[ \left[ \left[ \left[ \left[ x^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]
\end{document}
```

$$\left[\left[\left[\left[\left[\left[\left[x^2\right]^2\right]^2\right]^2\right]^2\right]^2\right]^2\right]$$

86 Test 100c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ x^2 \right\}^2 \right\}^2 \right\}^2 \right\}^2 \right\}^2 \right\}
\end{document}
```

$$\left\{\left\{\left\{\left\{\left\{\left\{\left\{x^2\right\}^2\right\}^2\right\}^2\right\}^2\right\}^2\right\}$$

87 Test 100d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]

\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]
\end{document}
```

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2$$

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2$$

88 Test 100e

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]

\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]
\end{document}
```

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2$$

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2$$

89 Test 101a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ a > b \quad c < d \quad ]
\[ \left< \left< \left< \left< x \right.>^2
\right.>^2 \right.>^2 \right.>^2 \]
\end{document}
```

$$a > b \quad c < d$$

$$\left\langle \left\langle \left\langle x^2 \right\rangle^2 \right\rangle^2 \right\rangle^2$$

90 Test 102a

```
\input{umtest-preamble}
\usepackage[slash-delimiter=frac]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left.\left[\begin{array}{cc}
a & b \\
c & d
\end{array}\right]\right/\left[\begin{array}{cc}
1 & 1 \\
1 & 0
\end{array}\right]
\end{array}\right]
\]
```

$$\left[\begin{array}{cc} a & b \\ c & d \end{array}\right] \bigg/ \left[\begin{array}{cc} 1 & 1 \\ 1 & 0 \end{array}\right]$$

91 Test 150a

```
\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\centerline{$\int\!\!\!\int\!\!\!\int$}
\end{document}
```

$$\int\!\!\!\int\!\!\!\int$$

92 Test 151a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \hat{i} \quad \hat{x} \quad \hat{M} \quad \widehat{x+y}
\]
\[ \tilde{i} \quad \tilde{x} \quad \tilde{M} \quad \widetilde{x+y}
\]
```

$$\begin{array}{cccc} \hat{i} & \hat{x} & \hat{M} & \widehat{x+y} \\ \tilde{i} & \tilde{x} & \tilde{M} & \widetilde{x+y} \end{array}$$

93 Test 200a

```

\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Cambria Math}
\begin{document}
  [${x\prime\prime\prime}$]
  [${x\prime\prime\prime\prime\prime\prime}$]
  [${x'}$]
  [${x'''}$]
  [${x'''''''}$]
  [${x^2}$]
  [${x^{222}}$]
  [${x^{22}'^2\prime^2}$]

  $x^{2222}$
  $x^{2222}$
  $x^{22}$
  $x^2$

\end{document}

```

$$\begin{array}{cccccccc} [x'''] & [x'''''] & [x'] & [x'''] & [x'''''] & [x'] & [x'''] & [x'''''] \\ x'''''''' & x'''''''' & x''' & x''' & & & & \end{array}$$

94 Test 200b

```
\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Asana Math}
\begin{document}
[{\x\backprime\backprime\backprime}$]
[{\x\backprime\backprime\backprime\backprime$]
[{\x`}$]
[{\x``}$]
[{\x````}$]
[{\x\underline{}$]
[{\x\underline{\hspace{-0.8em}}}$]
[{\x\underline{\hspace{-0.8em}}\backprime\underline{\hspace{-0.8em}}}$]

$x`\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}$
$x\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}`$
$x\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}$
$x\underline{\hspace{-0.8em}}\underline{\hspace{-0.8em}}$
\end{document}
```

$$\begin{array}{cccccccc} [x'''] & [x'''''] & [x'] & [x'''] & [x'''''] & [x'] & [x'''] & [x'''''] \\ x'''''' & x'''''' & x''' & x''' & & & & \end{array}$$

95 Test 201a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \sqrt{\sin^2 x + \cos^2 x} = 1 \quad \backslash
\quad \backslash \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + x}}}} \backslash
\end{document}
```

$$\sqrt{\sin^2 x + \cos^2 x} = 1$$

$$\sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + x}}}}$$

96 Test 202a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[a\colon b\qqquad a: b
\qqquad a^{^^^2236} b\]
\end{document}
```

$$a\colon b \quad a: b \quad a: b$$

97 Test 202b

```
\input{umtest-preamble}
\usepackage[colon=literal]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[a\colon b\qqquad a: b
\qqquad a^{^^^2236} b\]
\end{document}
```

$$a\colon b \quad a: b \quad a: b$$

98 Test 203a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[a-b\]
\[a\minus b\]
\end{document}
```

$$a - b$$

$$a - b$$

99 Test 204a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\setlength\parskip{12pt}
\begin{document}
$X_{012}$ $X_{123}$ $X_{234}$ $X_{345}$ $X_{456}$ $X_{567}$ $X_{678}$
$X_{9+-}$ $X_{+-}($ $X_{-}(=$ $X_{(=)}$ $X_{=)}$ $X_{)}$ $X_{)}$ $X_{)}$
$X^{0+)}^2$ $X^{+)}^2$ $X^{2}$ $X^{2+)}^2$
$X_{34}^{2+)}^2$
\end{document}
```

$X_{012} X_{123} X_{234} X_{345} X_{456} X_{567} X_{678} X_{789} X_{89+}$

$X_{9+-} X_{+-}(X_{-}(= X_{(=)} X_{=)} X_{)} X_{ae} X_{aeo} X_{eox} X_{ox0} X_{x01}$

$X^{0i+)n2} X^{i+)n2} X^{n2} X^{2i+)n}$

$X_{34}^{2i+)n}$

100 Test 205a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\iiint_V\]
\removenolimits\iiint
\[\iiint_V\]
\addnolimits\iiint
\[\iiint_V\]
\end{document}
```

\iiint_V

\iiint_V

\iiint_V

101 Test 206a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[(A+B+\dots+Z)\]
\[(A+B+\dots)\]
\[(A+B+\cdots)\]
\end{document}
```

$A + B + \dots + Z$

$(A + B + \dots)$

$(A + B + \cdots)$

102 Test 206b

```
\input{umtest-preamble}
\usepackage{amsmath}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[(A+B+\dots+Z)\]
\[(A+B+\dots)\]
\[(A+B+\cdots)\]
\end{document}
```

$$A + B + \cdots + Z$$
$$(A + B + \dots)$$
$$(A + B + \cdots)$$

103 Test 206c

```
\input{umtest-preamble}
\usepackage{amsmath}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[% a\% b \% c \]
\[$ a\$ b \$ c \]
\& a\& b \& c \]
\# a\# b \# c \]
\end{document}
```

$$a\%b\%c$$
$$a\$b\$c$$
$$a\&b\&c$$
$$a\#b\#c$$

104 Test 207a

```
\input{umtest-preamble}
\usepackage{amsmath}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\unimathsetup{active-frac=normalsize}
\[% \frac{1}{2} \frac{3}{4} \frac{1}{9} \frac{1}{10} \frac{1}{3} \frac{1}{3} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{6} \frac{1}{6} \frac{1}{8} \frac{1}{8} \frac{1}{8} \frac{1}{8} \]
\unimathsetup{active-frac=small}
\[% \frac{1}{2} \frac{3}{4} \frac{1}{9} \frac{1}{10} \frac{1}{3} \frac{1}{3} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{6} \frac{1}{6} \frac{1}{8} \frac{1}{8} \frac{1}{8} \frac{1}{8} \]
\end{document}
```

$$\frac{1}{4} \frac{1}{2} \frac{3}{4} \frac{1}{9} \frac{1}{10} \frac{1}{3} \frac{1}{3} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{6} \frac{1}{6} \frac{1}{8} \frac{1}{8} \frac{1}{8} \frac{1}{8}$$
$$\frac{1}{4} \frac{1}{2} \frac{3}{4} \frac{1}{9} \frac{1}{10} \frac{1}{3} \frac{1}{3} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{5} \frac{1}{6} \frac{1}{6} \frac{1}{8} \frac{1}{8} \frac{1}{8} \frac{1}{8}$$

105 Test 400a

```
\input{umtest-preamble}
\usepackage[trace=on]{unicode-math}
\setmainfont{TeX Gyre Pagella}
\setsansfont{TeX Gyre Adventor}
\setmonofont{TeX Gyre Cursor}
\setmathfont{Cambria Math}
\usepackage{url}
\begin{document}
\centering\obeylines
\url{http://www.lmgtfy.com/}
\url{?q="~!@#%&*()<>`}
\urlstyle{rm}
\url{http://www.lmgtfy.com/}
\url{?q="~!@#%&*()<>`}
\urlstyle{sf}
\url{http://www.lmgtfy.com/}
\url{?q="~!@#%&*()<>`}
\end{document}
```

```
http://www.lmgtfy.com/
?q="~!@#%&*()<>`'
http://www.lmgtfy.com/
?q="~!@#%&*()<>`'
http://www.lmgtfy.com/
?q="~!@#%&*()<>`'
```

106 Test 500a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=000000]{Cambria Math}
\setmathfont[range={\mathop}, Colour=FF0000]{C}
\setmathfont[range={"3D"}, Colour=009900]{Cambria Math}
\setmathfont[range={\mathopen,\mathclose},
Colour=0000FF]{Cambria Math}
\setlength\parskip{12pt}
\begin{document}
\[
F(s)=\mathscr{L}\left\{f(t)\right\}=
\int_0^\infty \mathop{e}^{\{-st\}}f(t)\,,\mathscr{L}
\]
\end{document}
```

$$F(s) = \mathcal{L}\{f(t)\} = \int_0^\infty e^{-st} f(t) dt$$

107 Test 501a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=000000]{Cambria Math}
\setmathfont[range=\mathscr, Colour=FF0000]{Cambria Math}
\setmathfont[range=\mathfrak, Colour=0000FF]{Cambria Math}
\begin{document}
\[\latintext\]
\[\mathscr{\latintext}\]
\[\mathfrak{\latintext}\]
\[\LATINmath\]
\[\mathscr{\LATINmath}\]
\[\mathfrak{\LATINmath}\]
\end{document}
```

```
abcdefghijklmnopqrstvwxyz
a&b c d e f g h i j k l m n o p q r s t u v w x y z
a b c d e f g h i j k l m n o p q r s t u v w x y z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
```

108 Test 501b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont[Colour=000000]{Cambria Math}  
\setmathfont[range=\mathscr, Colour=FF0000]{T  
\begin{document}  
\[ \text{\textbackslash latintext} \]  
\[ \text{\textbackslash mathscr{ \textbackslash latintext} } \]  
\[ \text{\textbackslash LATINmath} \]  
\[ \text{\textbackslash mathscr{ \textbackslash LATINmath} } \]  
\end{document}
```

