SynthSlant Calibration Sheet

for synthslant version 0.2 as of 2025/10/27

Selected slant engine: PDF. Font name: ec-mlmr10.

Shape	Code Seq.	L.case	Mixed Case	Uppercase
Normal Italic	\normalfont \itshape	$egin{array}{c} { m aefgiv} \\ {\it aefgiv} \end{array}$	White Handgloves White Handgloves	HÅMBÜRGÉFØÑŠ <i>HÅMBÜRGÉFØÑŠ</i>

1 Slanted Samples

Slant	L.case	Mixed Case	Uppercase
.05	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.06	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.07	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.08	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.09	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.10	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.11	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.12	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.13	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.14	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.15	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.16	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.17	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.18	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.19	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.20	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.21	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.22	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.23	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.24	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.25	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.26	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.27	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.28	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.29	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.30	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.31	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.32	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.33	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.34	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.35	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.36	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.37	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>
.38	aefgiv	White Handgloves	HÅMBÜRGÉFØÑŠ
.39	aefgiv	White Handgloves	<i>HÅMBÜRGÉFØÑŠ</i>

2 Upright Italic Samples

Slant	L.case	Mixed Cas	e	Uppercase
05	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
06	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
07	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
08	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
09	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
10	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
11	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
12	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
13	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
14	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
15	aefgiv	White Har	adgloves	HÅMBÜRGÉFØÑŠ
16	aefgiv	White Har		HÅMBÜRGÉFØÑŠ
17	aefgiv	White Har	idgloves	HÅMBÜRGÉFØÑŠ
18	aefgiv	White Har	idgloves	HÅMBÜRGÉFØÑŠ
19	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
20	aefgiv	White Han	adgloves	HÅMBÜRGÉFØÑŠ
21	aefgiv	White Han	-	HÅMBÜRGÉFØÑŠ
22	aefgiv	White Han	-	HÅMBÜRGÉFØÑŠ
23	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
24	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
25	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
26	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
27	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
28	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
29	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
30	aefgiv	White Han	idgloves	HÅMBÜRGÉFØÑŠ
31	aefgiv	White Han		HÅMBÜRGÉFØÑŠ
32	aefgiv	White Han	•	HÅMBÜRGÉFØÑŠ
33	aefgiv	White Han	•	HÅMBÜRGÉFØÑŠ
34	aefgiv	White Han		HÅMBÜRGÉFØÑŠ
35	aefgiv	White Han	•	HÅMBÜRGÉFØÑŠ
36	aefgiv	White Han	•	HÅMBÜRGÉFØÑŠ
37	aefgiv	White Han	•	HÅMBÜRGÉFØÑŠ
38	aefgiv	White Han	-	HÅMBÜRGÉFØÑŠ
39	aefgiv	White Han	dgloves	HÅMBÜRGÉFØÑŠ

3 Examples

The current slant values are $\synthslant = .23$ and $\synthnegslant = -.21$.

3.1 Copy

We mix different shapes to gauge the homogeneity of slant angles and overall gray values. Some overfull horizontal boxes are possible even with package microtype being active.

Roman/Italic.

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment. His many legs, pitifully thin compared with the size of the rest of him, waved about helplessly as he looked.

Roman/Slanted Roman.

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment. His many legs, pitifully thin compared with the size of the rest of him, waved about helplessly as he looked.

Italic/Slanted Roman.

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment. His many legs, pitifully thin compared with the size of the rest of him, waved about helplessly as he looked.

Roman/Italic/Slanted Roman.

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment. His many legs, pitifully thin compared with the size of the rest of him, waved about helplessly as he looked.

Roman/Upright Italic.

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment. His many legs, pitifully thin compared with the size of the rest of him, waved about helplessly as he looked.

3.2 Bounding Box

Thin lines indicate the baseline. All bounding boxes should be very tight. A little piercing into the box in the direction of the slant operation is acceptable.

\textrm	_	aefgiv	HAMBÜRGÉFØÑŠ _
\textit	_	$aefgiv$ $_$	<i>HAMBÜRGÉFØÑŠ</i>
\synthslantbox{.23}	_	$aefgiv$ $_$	$HAMB \ddot{U}RG\acute{E}F \H{O} ilde{N} ightS$ $$
\synthslantbox{21}	_	$aefgiv$ $_$	HAMBÜRGÉFØÑŠ _
\textsynthslant	_	$aefgiv$ $_$	$HAMB \ddot{U}RG\acute{E}F \H{O} \~N \r{S}$ $$
\textsynthuprightitalic	_	aefgiv _	HAMBÜRGÉFØÑŠ _

3.3 Width Change with \synthslantbox?

Widths of the alphabet in uppercase and lowercase letter plus the digits. The "hyp" version contains discretionary hyphens (\-) between each of the letters or digits. The absolute value of all deltas should be much less than 3pt.

\upshape	Slant	Width	Delta	\itshape	Slant	Width	De
		pt	pt			pt	pt
ABC		363.8	_	ABC	_	355	_
ABC hyp	_	363.5	—	ABC hyp	_	356.8	—
ABC	0	363.8	0	ABC	0	355	0
ABC hyp	0	363.5	0	ABC hyp	0	356.8	0
ABC	.1	363.8	0	ABC	1	355	0
ABC hyp	.1	363.5	0	ABC hyp	1	356.8	0
ABC	.2	363.8	0	ABC	2	355	0
ABC hyp	.2	363.5	0	ABC hyp	2	356.8	0
ABC	.3	363.8	0	ABC	3	355	0
ABC hyp	.3	363.5	0	ABC hyp	3	356.8	0

3.4 Line Breaking

Left: plain text,

right: \textsynthslant{Show line break\-ing with a sen\-tence.}

Show	Show
line	line
break-	break-
ing	ing
with	with
a	\boldsymbol{a}
sen-	sen-
tence.	tence.

Left: Schi\discretionary{ff-}{f}\ff\ahrt,

right: \textsynthslant{Schi\discretionary{ff-}{ff}ahrt}

Schiff- Schifffahrt fahrt

3.5 Microtype Enhancements

Package microtype loaded.

Test different trackings in the synthnegslant context.

${\text{Tracking}}$ $^{1}/_{1000} \text{ em}$	$\frac{\rm Spacing}{\rm ^{dim}/_{1000}}$	Sample	Example sentence
0	0	aefgiv	The quick brown fox jumps over the lazy dog.
20	150	aefgiv	The quick brown fox jumps over the lazy dog.
250	300	$ a\ e\ f\ g\ i\ v $	The quick brown for jumps over the lazy dog.

All samples are tightly bracketed by thin horizontal rules to reveal possible outer spacing problems.