

Running cochineal in XeLaTeX or LuaLaTeX

The preceding pages of this document were processed using pdf \LaTeX , which was the only engine supported by cochineal.sty. As of version 1.07, XeLaTeX and LuaLaTeX are also supported. All cochineal options and macros formerly limited to pdf \LaTeX have been modified and now work essentially the same under both unicode engines, though the output may not always be precisely the same as with pdf \LaTeX . There are some macros and options available under unicode engines that go beyond what can be done under pdf \LaTeX .

MODIFIED MACROS AND OPTIONS:

- `\textfrac` works better under unicode tex because it is possible to adjust kerning between all characters. The effect should not be very noticeable, at least in regular style.
- `sup`s: the package treats this differently in unicode LaTeX and pdf \LaTeX , with handling in the unicode case passed off to the `realscripts` package where the footnote marker font is set to `\normalfont`, meaning that superiors from the current (Cochineal) text font are employed.
- `theoremfont`, `thmtabular`, `thmlining` all function in a similar manner to pdf \LaTeX .
- `swashQ` operates as before.
- `foresolidus`, `aftsolidus` are not used in unicode tex.
- `scosf` operates without change.
- `\textcircled` works the same as under pdf \LaTeX .[⊗]

NEW MACROS AND OPTIONS:

- An alternate version of Q, Q (`\Qswash`) and their small cap versions is available using option `altQ`, which sets `StylisticSet=3`. The alternate versions are \mathring{Q} , \mathring{Q} .
- An alternate version of J is available in italic shapes only using option `altJ`, which sets `StylisticSet=2`. The alternate version of *J* is \mathring{J} .
- `oldSS` controls whether the new German capital sharp S is used or whether the old SS is retained. The former is the default but the option `oldSS` forces the latter by setting `StylisticSet=1`. The effects are summarized in the following tables.

Glyph name	glyph	macro
uni1E9E	Œ	<code>\symbol{"1E9E}</code> or <code>\SS</code>
uni1E9E.ss01	SS	<code>{\addfontfeature{StylisticSet=1}\symbol{"1E9E}}</code>
germandbls.sc	ſ	<code>{\textsc{\ss}}</code>
germandbls.sc.ss01	ss	<code>{\addfontfeature{StylisticSet=1}\textsc{\ss}}</code>

Effect of choice of `StylisticSet`:

<code>StylisticSet</code>	<code>\ss</code>	<code>\SS</code>	<code>\MakeUppercase{\ss}</code>	<code>\textsc{\ss}</code>
None	ſ	Œ	Œ	ſ
=1	ſ	SS	SS	ss