

switchkutoten パッケージ

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1 警告

このパッケージでは U+3000 のブロックと U+FF00 のブロックの文字を全て欧文扱いした上で再定義しています。使う場合は必ずそのことを理解して使うようにしましょう。

2 このパッケージは何？

`switchkutoten` パッケージは「`upLaTeX` で」「句読点を置き換えてそろえるための」パッケージです。 `pLaTeX` では使えません。なお `LuaLaTeX` や `XYLaTeX` でも使うことはできません。普通に `\newunicodechar` しましょう。

なんでこんなパッケージを作ったかというと、エディタ上では、。と入力したものを（エディタ上の文字を変えることなく）、. を出力するためです。これによって使用するパソコン等機器本体の IME を変えることなく `LaTeX` の文書単位で直感的に句読点を変更することができます。

パッケージの中では U+3000 から U+30FF, U+FF00 から U+FF0F までの `\kcatcode` を 15（欧文扱い）にした後 `\newunicodechar` を用いてこれらの範囲の全ての文字を再定義しています。 `pLaTeX` で使うことができないのは `\kcatcode` を 15 に変えているためです。なお `LuaLaTeX` や `XYLaTeX` の場合は `\kcatcode` を変更する必要がありません。

3 使い方

適切なディレクトリに `switchkutoten.sty` を置いてプレアンプルで

```
1 \usepackage[<オプション名>]{switchkutoten}
```

としてください。句読点に関するパッケージオプションには以下があります。

`nothing` 句読点の置き換えを行わない

`cp` 句読点を、. に統一

`tenmaru` 句読点を、。に統一

`cmaru` 句読点を、。に統一

`tenp` 句読点を、. に統一

とはいえ、このパッケージには文書の見た目が変わってしまう副作用があります。副作用は以下のオプションで選ぶことができます。

`empty` 再定義した文字の直後に数字がくるとコンパイルエラーを起こす。

`space` 再定義した文字の直後に改行がくると次の文字との間に半角スペースができる。

`forcezenkaku` 合字ができなくなる。

デフォルトでは `nothing`, `empty` のオプションが有効になっています。

なお、「`empty` オプション付きでコンパイルで可能」ならば「その文書に句読点を置き換えたことによる副作用はない」ようになっています。

4 注意点

パッケージを読み込んだ状態で例えば `lstlisting` 環境を使って中身に再定義された文字を入れようするとエラーを起こします。回避するためには例えば

```
1 {\kcatcode"3000=18
2 \kcatcode"FF0E=18
3 \lstinputlisting{switchkutoten.sty}}
```

のようにすると一時的に再定義する前の状態に戻すことができます。

5 パッケージの内容

表示できる範囲で表示します。

```
1 \ProvidesPackage{switchkutoten}[2022/09/02]
2 \RequirePackage{ucharcat}
3 \RequirePackage{newunicodechar}
```

```

4 \kcatcode"3000=15
5 \kcatcode"FF00=15
6 \makeatletter
7 \@namedef{u8:\detokenize{ }}{\Ucharcat 12288 18\afterchar}
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246 \@namedef{u8:\detokenize{̫}}{\Ucharcat 65453 18\afterchar}
247 \@namedef{u8:\detokenize{̬}}{\Ucharcat 65454 18\afterchar}
248 \@namedef{u8:\detokenize{̭}}{\Ucharcat 65455 18\afterchar}
249 \@namedef{u8:\detokenize{̮}}{\Ucharcat 65456 18\afterchar}
250 \@namedef{u8:\detokenize{̯}}{\Ucharcat 65457 18\afterchar}
251 \@namedef{u8:\detokenize{̰}}{\Ucharcat 65458 18\afterchar}
252 \@namedef{u8:\detokenize{̱}}{\Ucharcat 65459 18\afterchar}
253 \@namedef{u8:\detokenize{̲}}{\Ucharcat 65460 18\afterchar}
254 \@namedef{u8:\detokenize{̳}}{\Ucharcat 65461 18\afterchar}
255 \@namedef{u8:\detokenize{̴}}{\Ucharcat 65462 18\afterchar}
256 \@namedef{u8:\detokenize{̵}}{\Ucharcat 65463 18\afterchar}
257 \@namedef{u8:\detokenize{̶}}{\Ucharcat 65464 18\afterchar}
258 \@namedef{u8:\detokenize{̷}}{\Ucharcat 65465 18\afterchar}
259 \@namedef{u8:\detokenize{̸}}{\Ucharcat 65466 18\afterchar}
260 \@namedef{u8:\detokenize{̹}}{\Ucharcat 65467 18\afterchar}
261 \@namedef{u8:\detokenize{̺}}{\Ucharcat 65468 18\afterchar}
262 \@namedef{u8:\detokenize{̻}}{\Ucharcat 65469 18\afterchar}
263 \@namedef{u8:\detokenize{̼}}{\Ucharcat 65470 18\afterchar}
264 \@namedef{u8:\detokenize{̽}}{\Ucharcat 65471 18\afterchar}
265 \@namedef{u8:\detokenize{̾}}{\Ucharcat 65472 18\afterchar}
266 \@namedef{u8:\detokenize{̿}}{\Ucharcat 65473 18\afterchar}
267 \@namedef{u8:\detokenize{̸̺}}{\Ucharcat 65474 18\afterchar}

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268 \@namedef{u8:\detokenize{☒}}{\Ucharcat 65475 18\afterchar}
269 \@namedef{u8:\detokenize{☓}}{\Ucharcat 65476 18\afterchar}
270 \@namedef{u8:\detokenize{☔}}{\Ucharcat 65477 18\afterchar}
271 \@namedef{u8:\detokenize{☕}}{\Ucharcat 65478 18\afterchar}
272 \@namedef{u8:\detokenize{☖}}{\Ucharcat 65479 18\afterchar}
273 \@namedef{u8:\detokenize{☗}}{\Ucharcat 65480 18\afterchar}
274 \@namedef{u8:\detokenize{☘}}{\Ucharcat 65481 18\afterchar}
275 \@namedef{u8:\detokenize{☙}}{\Ucharcat 65482 18\afterchar}
276 \@namedef{u8:\detokenize{☚}}{\Ucharcat 65483 18\afterchar}
277 \@namedef{u8:\detokenize{☛}}{\Ucharcat 65484 18\afterchar}
278 \@namedef{u8:\detokenize{☜}}{\Ucharcat 65485 18\afterchar}
279 \@namedef{u8:\detokenize{☝}}{\Ucharcat 65486 18\afterchar}
280 \@namedef{u8:\detokenize{☞}}{\Ucharcat 65487 18\afterchar}
281 \@namedef{u8:\detokenize{☟}}{\Ucharcat 65488 18\afterchar}
282 \@namedef{u8:\detokenize{☠}}{\Ucharcat 65489 18\afterchar}
283 \@namedef{u8:\detokenize{☡}}{\Ucharcat 65490 18\afterchar}
284 \@namedef{u8:\detokenize{☢}}{\Ucharcat 65491 18\afterchar}
285 \@namedef{u8:\detokenize{☣}}{\Ucharcat 65492 18\afterchar}
286 \@namedef{u8:\detokenize{☤}}{\Ucharcat 65493 18\afterchar}
287 \@namedef{u8:\detokenize{☥}}{\Ucharcat 65494 18\afterchar}
288 \@namedef{u8:\detokenize{☦}}{\Ucharcat 65495 18\afterchar}
289 \@namedef{u8:\detokenize{☧}}{\Ucharcat 65496 18\afterchar}
290 \@namedef{u8:\detokenize{☨}}{\Ucharcat 65497 18\afterchar}
291 \@namedef{u8:\detokenize{☩}}{\Ucharcat 65498 18\afterchar}
292 \@namedef{u8:\detokenize{☪}}{\Ucharcat 65499 18\afterchar}
293 \@namedef{u8:\detokenize{☫}}{\Ucharcat 65500 18\afterchar}
294 \@namedef{u8:\detokenize{☬}}{\Ucharcat 65501 18\afterchar}
295 \@namedef{u8:\detokenize{☭}}{\Ucharcat 65502 18\afterchar}
296 \@namedef{u8:\detokenize{☮}}{\Ucharcat 65503 18\afterchar}
297 \@namedef{u8:\detokenize{☰}}{\Ucharcat 65504 18\afterchar}
298 \@namedef{u8:\detokenize{☱}}{\Ucharcat 65505 18\afterchar}
299 \@namedef{u8:\detokenize{☲}}{\Ucharcat 65506 18\afterchar}
300 \@namedef{u8:\detokenize{☳}}{\Ucharcat 65507 18\afterchar}
301 \@namedef{u8:\detokenize{☴}}{\Ucharcat 65508 18\afterchar}
302 \@namedef{u8:\detokenize{☵}}{\Ucharcat 65509 18\afterchar}
303 \@namedef{u8:\detokenize{☶}}{\Ucharcat 65510 18\afterchar}
304 \@namedef{u8:\detokenize{☷}}{\Ucharcat 65511 18\afterchar}
305 \@namedef{u8:\detokenize{☸}}{\Ucharcat 65512 18\afterchar}
306 \@namedef{u8:\detokenize{☹}}{\Ucharcat 65513 18\afterchar}
307 \@namedef{u8:\detokenize{☺}}{\Ucharcat 65514 18\afterchar}
308 \@namedef{u8:\detokenize{☻}}{\Ucharcat 65515 18\afterchar}
309 \@namedef{u8:\detokenize{☼}}{\Ucharcat 65516 18\afterchar}
310 \@namedef{u8:\detokenize{☽}}{\Ucharcat 65517 18\afterchar}
311 \@namedef{u8:\detokenize{☾}}{\Ucharcat 65518 18\afterchar}

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312 \@namedef{u8:\detokenize{☒}}{\Ucharcat 65519 18\afterchar}
313 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65520 18\afterchar}
314 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65521 18\afterchar}
315 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65522 18\afterchar}
316 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65523 18\afterchar}
317 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65524 18\afterchar}
318 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65525 18\afterchar}
319 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65526 18\afterchar}
320 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65527 18\afterchar}
321 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65528 18\afterchar}
322 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65529 18\afterchar}
323 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65530 18\afterchar}
324 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65531 18\afterchar}
325 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65532 18\afterchar}
326 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65533 18\afterchar}
327 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65534 18\afterchar}
328 % \@namedef{u8:\detokenize{☒}}{\Ucharcat 65535 18\afterchar}
329
330
331 %句読点のオプション
332 \DeclareOption{cp}{
333 \@namedef{u8:\detokenize{、}}{\Ucharcat 65292 18\afterchar}
334 \@namedef{u8:\detokenize{。}}{\Ucharcat 65294 18\afterchar}
335 \@namedef{u8:\detokenize{,}}{\Ucharcat 65292 18\afterchar}
336 \@namedef{u8:\detokenize{.}}{\Ucharcat 65294 18\afterchar}
337 }
338 \DeclareOption{cmaru}{
339 \@namedef{u8:\detokenize{、}}{\Ucharcat 65292 18\afterchar}
340 \@namedef{u8:\detokenize{。}}{\Ucharcat 12290 18\afterchar}
341 \@namedef{u8:\detokenize{,}}{\Ucharcat 65292 18\afterchar}
342 \@namedef{u8:\detokenize{.}}{\Ucharcat 12290 18\afterchar}
343 }
344 \DeclareOption{tenmaru}{
345 \@namedef{u8:\detokenize{、}}{\Ucharcat 12289 18\afterchar}
346 \@namedef{u8:\detokenize{。}}{\Ucharcat 12290 18\afterchar}
347 \@namedef{u8:\detokenize{,}}{\Ucharcat 12289 18\afterchar}
348 \@namedef{u8:\detokenize{.}}{\Ucharcat 12290 18\afterchar}
349 }
350 \DeclareOption{tenp}{
351 \@namedef{u8:\detokenize{、}}{\Ucharcat 12289 18\afterchar}
352 \@namedef{u8:\detokenize{。}}{\Ucharcat 65294 18\afterchar}
353 \@namedef{u8:\detokenize{,}}{\Ucharcat 12289 18\afterchar}
354 \@namedef{u8:\detokenize{.}}{\Ucharcat 65294 18\afterchar}
355 }

```

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356 \DeclareOption{nothing}{
357 \@namedef{u8:\detokenize{\ }}{\Ucharcat 12289 18\afterchar}
358 \@namedef{u8:\detokenize{. }}{\Ucharcat 12290 18\afterchar}
359 \@namedef{u8:\detokenize{, }}{\Ucharcat 65292 18\afterchar}
360 \@namedef{u8:\detokenize{. }}{\Ucharcat 65294 18\afterchar}
361 }
362 \DeclareOption{empty}{
363 \def\afterchar{}
364 }
365 \DeclareOption{forcezenkaku}{
366 \def\afterchar{\ignorespaces}
367 }
368 \DeclareOption{space}{
369 \def\afterchar{ }
370 }
371 \ExecuteOptions{nothing,empty}
372 \ProcessOptions\relax
373 \makeatother

```
