

The `phonrule` package

Stefano Coretta
`stefano.coretta@me.com`

October 21, 2013

1 Purpose

This packages provides macros for typesetting phonological rules like those in Sound Pattern of English (Chomsky and Halle 1968).

2 Usage

```
\phon{<input>}{<output>}
```

The command `\phon` has two arguments: the first one is the input of the rule and the second is the output. Here is an example with code and result:

- (1) `\phon{z}{r}`
- (2) $z \rightarrow r$

3 Usage

```
\phonc{<input>}{<output>}{<context>}
```

`\phonc` adds a third argument for the context:

- (3) `\phonc{a}{ə}{[-stressed]}`
- (4) $a \rightarrow ə / [-stressed]$

The commands `\phonl`, `\phonr` and `\phonb` add a place holder line and put the context, respectively, on the left (l), on the right (r) and on both sides (b):

- (5) a. `\phonl{k}{t}{t}`
b. $z \rightarrow r / _$
- (6) a. `\phonr{t}{ts}{u}`
b. $t \rightarrow ts / _ u$
- (7) a. `\phonb{s}{z}{V}{V}`
b. $s \rightarrow z / V _ V$

The `\oneof` environment provides the possibility to compile several context, one per line, enclosed in curly brackets. You need to use a `\mbox`.

(8) `\phonc{t}{ts}{`
`\begin{oneof}`
`\placeholder \mbox{i} \\`
`\placeholder \mbox{u}`
`\end{oneof}`
`}`

(9) $t \rightarrow ts / \left\{ \begin{array}{l} - i \\ - u \end{array} \right\}$

`\placeholder` typeset a place holder line with spaces before and after. The `\phonfeat` environment allows you to insert feature specifications:

(10) `\phonc{t}{ts}{\phold`
`\begin{phonfeat}`
`\mbox{-consonantal} \\`
`\mbox{+high} \\`
`\mbox{+front}`
`\end{phonfeat}`
`}`

(11) $t \rightarrow ts / \text{---} \left[\begin{array}{l} - \text{consonantal} \\ + \text{high} \\ + \text{front} \end{array} \right]$

`\phold` typeset a place holder line without spaces. The environments `\oneofnest` and `\phonfeatnest` allows one-of environments (inside curly brackets) and feature specifications (inside square brackets) to be nested inside a `\oneof` environment.

References

Chomsky, Noam and Morris Halle. 1968. *The sound pattern of English*. New York, Evanston, and London: Harper & Row.