

The **phonrule** package

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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) $a \rightarrow \emptyset / [-stressed]$

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}`
b. $z \rightarrow r / _$
- (6) a. `\phonr{t}{ts}{u}`
b. $t \rightarrow ts / _ u$
- (7) a. `\phonb{s}{z}{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 → ts / { — i
                — u }
```

`\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 → ts / — [ — consonantal
                    +high
                    +front ]
```

`\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.