The **phonrule** package (v1.0.0)

Stefano Coretta
stefano.coretta@me.com
August 8, 2014

1 Purpose


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}{c}{i}
   b. k \rightarrow t / i
(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` command provides the possibility to compile several contexts, one per line, embraced by the left curly bracket. You need to use a `\mbox`.

(8) \phonc{t}{ts}{
    \oneof{
        \phold \mbox{i} \\\n        \phold \mbox{u}}
    }

(9) \t \rightarrow \text{ts} / \begin{cases} _{i} \\
                    _{u} \end{cases}

The `\phonfeat` command allows you to insert feature specifications:

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

(11) \t \rightarrow \text{ts} / \begin{bmatrix}
                - \text{consonantal} \\
                + \text{high} \\
                + \text{front}
        \end{bmatrix}

\phold typesets a place holder line. You can nest `oneof` and `phonfeat` commands for complex rules.

(12) \phonc{x}{y}{\oneof{\phold \mbox{z} \\\n            \phonfeat{+\mbox{feature x} \\\n            -\mbox{feature y}} \phold}}

(13) \x \rightarrow \text{y} / \begin{cases} _{z} \\
                    + \text{feature x} \\
                    - \text{feature y} \end{cases}

You can use `\env`, `\envl`, `\envr`, `\envb` for rules with more than one output: these command typeset only the different outputs with their respective environments.

(14) \phon{x}{\oneof{\envr{w}{\mbox{z}} \\\n            \envl{v}{\phonfeat{+\mbox{feature x} \\\n            -\mbox{feature y}}}}}}

(15) \x \rightarrow \begin{cases} \text{w/} _{z} \\
                    \text{v/} + \text{feature x} \\
                    \text{v/} - \text{feature y} \end{cases}
4 Changelog

4.1 v1.0.0

- new definition of commands with `\ensuremath`
- change of environments to commands
- definition of new commands `\env` for personalized outputs
- updated place holder to 1.5ex length, -1.5pt vertical position
- updated curly brackets to only left in `\oneof` command