

The Postem book

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Grammar

1 Literals

1.1 Integer

$$\begin{aligned}\langle \text{digit} \rangle &::= 0 \dots 9 \\ \langle \text{integer-literal} \rangle &::= \langle \text{digit} \rangle^+\end{aligned}$$

1.2 Text

$$\begin{aligned}\langle \text{char} \rangle &::= A \dots Z \mid a \dots z \mid 0 \dots 9 \mid \\ &\quad ! \mid " \mid \# \mid \$ \mid \% \mid \& \mid \\ &\quad ' \mid) \mid (\mid * \mid + \mid , \mid \\ &\quad - \mid . \mid / \mid : \mid ; \mid < \mid \\ &\quad = \mid > \mid ? \mid @ \mid ' \mid \sim \mid \\ &\quad] \mid [\mid ^ \mid _ \mid \{ \mid | \mid \} \\ \langle \text{alpha} \rangle &::= A \dots Z \mid a \dots z \\ \langle \text{text-literal} \rangle &::= \langle \text{alpha} \rangle \langle \text{char} \rangle^*\end{aligned}$$

1.3 Whitespace

$$\langle \text{whitespace-literal} \rangle ::= ' ' \mid \backslash \text{t} \mid \backslash \text{r}$$

2 Statment

2.1 Alias

$$\begin{aligned}\langle \text{alias-equality} \rangle &::= == \\ \langle \text{alias-value} \rangle &::= "\langle \text{any-char} \rangle" \\ \langle \text{alias-statment} \rangle &::= \langle \text{text} \rangle [\langle \text{whitespace-literal} \rangle] \langle \text{alias-equality} \rangle \\ &\quad [\langle \text{whitespace-literal} \rangle] \langle \text{alias-value} \rangle\end{aligned}$$

2.2 Include

$$\langle \text{include-statment} \rangle ::= !! \langle \text{any-char} \rangle !!$$

2.3 Meta

$\langle\text{newline}\rangle ::= \backslash\mathbf{n} \mid \backslash\mathbf{r} \backslash\mathbf{n} \mid \langle\text{whitespace-literal}\rangle$
 $\langle\text{meta-name}\rangle ::= \langle\text{char}\rangle^+$
 $\langle\text{meta-content}\rangle ::= \langle\text{char}\rangle^+$
 $\langle\text{meta-statment}\rangle ::= \dots\langle\text{meta-name}\rangle\langle\text{whitespace-literal}\rangle\langle\text{char}\rangle\dots$

2.4 Unformat

$\langle\text{unformat-statment}\rangle ::= \{\{\langle\text{any-char}\rangle\}\}$

2.5 Sequence

$\langle\text{expression}\rangle ::= \langle\text{integer}\rangle \mid \langle\text{text}\rangle \mid \langle\text{whitespace}\rangle \mid \langle\text{alias-statment}\rangle \mid$
 $\langle\text{include-statment}\rangle \mid \langle\text{unformat-statment}\rangle$
 $\langle\text{sequence-statment}\rangle ::= \langle\text{expression}\rangle^+$

3 Block

3.1 Conclusion

$\langle\text{conclusion-begin}\rangle ::= \text{--}[\langle\text{whitespace-literal}\rangle]$
 $\langle\text{conclusion-block}\rangle ::= \langle\text{conclusion-begin}\rangle\langle\text{sequence-statment}\rangle$

3.2 Definition

$\langle\text{definition-equality}\rangle ::= \%$
 $\langle\text{definition-block}\rangle ::= \langle\text{sequence-statment}\rangle[\langle\text{whitespace-literal}\rangle]$
 $\langle\text{definition-equality}\rangle[\langle\text{whitespace-literal}\rangle]$
 $\langle\text{sequence-statment}\rangle$

3.3 Heading

$\langle\text{heading-mark}\rangle ::= \&$
 $\langle\text{heading-block}\rangle ::= \langle\text{heading-mark}\rangle^+[\langle\text{whitespace-literal}\rangle]\langle\text{sequence-statment}\rangle$

3.4 Quotation

$\langle\text{quotation-begin}\rangle ::= >[\langle\text{whitespace-literal}\rangle]$
 $\langle\text{conclusion-block}\rangle ::= \langle\text{quotation-begin}\rangle\langle\text{sequence-statment}\rangle$

4 Document

$\langle \text{paragraph} \rangle ::= \langle \text{conclusion-block} \rangle \mid \langle \text{definition-block} \rangle \mid$
 $\langle \text{heading-block} \rangle \mid \langle \text{quotation-block} \rangle \mid$
 $\langle \text{sequence-statement} \rangle$
 $\langle \text{newline} \rangle ::= \backslash \mathbf{n} \mid \backslash \mathbf{r} \backslash \mathbf{n}$
 $\langle \text{separator} \rangle ::= \langle \text{newline} \rangle \langle \text{newline} \rangle^+$
 $\langle \text{document} \rangle ::= \langle \text{paragraph} \rangle \langle \langle \text{separator} \rangle \langle \text{paragraph} \rangle \rangle^*$