

Grammar

1st parser

- Terminals

<i>TAGLSLASH</i>	→	“ </ ”
<i>TAGLEXCLAMDASHDASH</i>	→	“ <!-- ”
<i>TAGL</i>	→	“ < ”
<i>SLASHTAGR</i>	→	“ /> ”
<i>DASHDASHTAGR</i>	→	“ --> ”
<i>TAGR</i>	→	“ > ”
<i>APOST</i>	→	“ ’ ”
<i>QUOTE</i>	→	“ ” ”
<i>SLASH</i>	→	“ / ”
<i>DASH</i>	→	“ - ”
<i>UNDERLINE</i>	→	“ _ ”
<i>SHARP</i>	→	“ # ”
<i>STAR</i>	→	“ * ”
<i>SEMICOLON</i>	→	“ ; ”
<i>COMMA</i>	→	“ , ”
<i>PERIOD</i>	→	“ . ”
<i>COLON</i>	→	“ : ”
<i>BAR</i>	→	“ ”
<i>EXCLAM</i>	→	“ ! ”
<i>INTERR</i>	→	“ ? ”
<i>NEWLINE</i>	→	“ \n ”
<i>EQUAL</i>	→	“ = ”
<i>AMPERSAND</i>	→	“ & ”
<i>SPACE</i>	→	“ ”
<i>DIGIT</i>	→	[“ 0 ” – “ 9 ”]
<i>LOWERCASE</i>	→	[“ a ” – “ z ”]
<i>UPPERCASE</i>	→	[“ A ” – “ Z ”]
<i>OTHER</i>	→	~ []

- Non-Terminals

$$\begin{aligned}
Article &\rightarrow WellFormed + \\
WellFormed &\rightarrow (NewLine \mid Line) (NewLine \mid Line)? \\
&\quad (NewLine \mid Line)? (NewLine \mid Line)? \\
&\quad (NewLine \mid Line)? (NewLine \mid Line)? \\
&\quad (NewLine \mid Line)? (NewLine \mid Line)? \\
WellFormed1 &\rightarrow (NewLine \mid LineText) (NewLine \mid Line) * \\
WellFormed2 &\rightarrow (NewLine \mid Line1) (NewLine \mid Line1)? \\
&\quad (NewLine \mid Line1)? (NewLine \mid Line1)? \\
&\quad (NewLine \mid Line1)? (NewLine \mid Line1)? \\
&\quad (NewLine \mid Line1)? (NewLine \mid Line1)? \\
Line &\rightarrow LineFormatting LineText? \\
&\rightarrow (Marks1 \mid Remove \mid NormalChar) LineText? \\
&\rightarrow Equals \\
Line1 &\rightarrow LineFormatting LineText2? \\
&\rightarrow (Marks1 \mid Remove1 \mid NormalChar) LineText2? \\
&\rightarrow Equals \\
NewLine &\rightarrow NEWLINE + \\
LineFormatting &\rightarrow (SHARP \mid STAR \mid SEMICOLON \mid COLON) + \\
LineText &\rightarrow (Remove \mid NormalChar \mid Marks) + \\
LineText1 &\rightarrow (Remove \mid NormalChar \mid Marks2) + \\
LineText2 &\rightarrow (Remove1 \mid NormalChar \mid Marks) + \\
NormalChar &\rightarrow (LOWERCASE \mid UPPERCASE \mid DIGIT \mid \\
&\quad SPACE \mid OTHER) + \\
NormalChar1 &\rightarrow (LOWERCASE \mid UPPERCASE \mid DIGIT \mid \\
&\quad OTHER) + \\
Marks &\rightarrow (EQUAL \mid TAGR \mid QUOTE \mid SLASH \mid \\
&\quad DASH \mid SHARP \mid STAR \mid SEMICOLON \mid \\
&\quad COMMA \mid PERIOD \mid COLON \mid BAR \mid \\
&\quad EXCLAM \mid INTERR) + \\
Marks1 &\rightarrow (TAGR \mid QUOTE \mid SLASH \mid DASH \mid \\
&\quad COMMA \mid PERIOD \mid BAR \mid EXCLAM \mid \\
&\quad INTERR) + \\
Marks2 &\rightarrow (TAGR \mid QUOTE \mid SLASH \mid DASH \mid SHARP \mid \\
&\quad STAR \mid SEMICOLON \mid COMMA \mid PERIOD \mid \\
&\quad COLON \mid BAR \mid EXCLAM \mid INTERR) +
\end{aligned}$$

Marks3 → (*EQUAL* | *TAGL* | *TAGR* | *SLASH* | *DASH* |
UNDERLINE | *SHARP* | *STAR* |
SEMICOLON | *COMMA* | *PERIOD* | *COLON* |
BAR | *EXCLAM* | *INTERR* | *AMPERSAND*) +
Marks4 → (*DASH* | *UNDERLINE* | *SHARP* | *STAR* |
SEMICOLON | *COMMA* | *PERIOD* | *COLON* |
BAR | *EXCLAM* | *INTERR* | *AMPERSAND*) +
Equals → *EQUAL* (*EQUAL* + *LineText1* *EQUAL* *EQUAL* +)?
Remove → *TAGL* *Tag*?
→ *Tag1*
→ *Comment*
→ *Symbol*
→ *Underline*
→ *Apostrophe*
Remove1 → *TAGL* *Tag*?
→ *Comment*
→ *Symbol*
→ *Underline*
→ *Apostrophe*
Tag → *SPACE* * (*LOWERCASE* | *UPPERCASE*) +
Html? *SPACE* * ((*TAGR* ((*LineText2* | *NewLine*)
*WellFormed2**)?) | *SLASHTAGR*)
Tag1 → *TAGLSLASH* *SPACE* * (*LOWERCASE* |
UPPERCASE) + *SPACE* * *TAGR*
Html → *EQUAL* *SPACE* * ((*QUOTE* (*NotApostQuote* |
APOST) * *QUOTE*) | (*APOST* (*NotApostQuote* |
QUOTE) * *APOST*) | *NotApostQuote1*) (*SPACE* +
(*DIGIT* | *LOWERCASE* | *UPPERCASE*) +
SPACE * *EQUAL* *SPACE* * ((*QUOTE*
(*NotApostQuote* | *APOST*) * *QUOTE*) | (*APOST*
(*NotApostQuote* | *QUOTE*) * *APOST*) |
NotApostQuote1)) *
→ (*SPACE* + (*DIGIT* | *LOWERCASE* |
UPPERCASE) + *SPACE* * *EQUAL* *SPACE* *
((*QUOTE* (*NotApostQuote* | *APOST*) * *QUOTE*) |
(*APOST* (*NotApostQuote* | *QUOTE*) * *APOST*) |
NotApostQuote1)) +
NotApostQuote → (*NormalChar* | *Marks3*) +
NotApostQuote1 → (*NormalChar1* | *Marks4*) +

Comment → *TAGLEXCLAMDASHDASH WellFormed1?*
DASHDASHTAGR
Symbol → *AMPERSAND (SHARP? (LOWERCASE |*
UPPERCASE | DIGIT)+ SEMICOLON?)?
Underline → *UNDERLINE (UNDERLINE UPPERCASE +*
UNDERLINE UNDERLINE)?
Apostrophe → *APOST +*

2nd parser

- Terminals

<i>BRACEL</i>	→	“ { ”
<i>BRACER</i>	→	“ } ”
<i>BRACKETL</i>	→	“ [”
<i>BRACKETR</i>	→	“] ”
<i>DASH</i>	→	“ - ”
<i>SHARP</i>	→	“ # ”
<i>COLON</i>	→	“ : ”
<i>BAR</i>	→	“ ”
<i>NEWLINE</i>	→	“ \n ”
<i>SPACE</i>	→	“ ”
<i>LETTER</i>	→	[“ A ” – “ Z ”, “ a ” – “ z ”]
<i>OTHER</i>	→	~ []

- Non-Terminals

$Article \rightarrow WellFormed +$
 $WellFormed \rightarrow (NewLine \mid Line) (NewLine \mid Line)?$
 $\quad (NewLine \mid Line)? (NewLine \mid Line)?$
 $\quad (NewLine \mid Line)? (NewLine \mid Line)?$
 $\quad (NewLine \mid Line)? (NewLine \mid Line)?$
 $\quad (NewLine \mid Line)? (NewLine \mid Line)?$
 $WellFormed1 \rightarrow (NewLine \mid Line1) (NewLine \mid Line1)?$
 $\quad (NewLine \mid Line1)? (NewLine \mid Line1)?$
 $\quad (NewLine \mid Line1)? (NewLine \mid Line1)?$
 $\quad (NewLine \mid Line1)? (NewLine \mid Line1)?$
 $\quad (NewLine \mid Line1)? (NewLine \mid Line1)?$
 $WellFormed2 \rightarrow (NewLine \mid Line6) (NewLine \mid Line6)?$
 $\quad (NewLine \mid Line6)? (NewLine \mid Line6)?$
 $\quad (NewLine \mid Line6)? (NewLine \mid Line6)?$
 $\quad (NewLine \mid Line6)? (NewLine \mid Line6)?$
 $\quad (NewLine \mid Line6)? (NewLine \mid Line6)?$
 $WellFormed3 \rightarrow (NewLine \mid Line7) (NewLine \mid Line7)?$
 $\quad (NewLine \mid Line7)? (NewLine \mid Line7)?$
 $\quad (NewLine \mid Line7)? (NewLine \mid Line7)?$
 $\quad (NewLine \mid Line7)? (NewLine \mid Line7)?$
 $\quad (NewLine \mid Line7)? (NewLine \mid Line7)?$
 $Line \rightarrow (Marks \mid Remove \mid NormalChar) +$
 $Line1 \rightarrow (MarksNoBrace \mid Remove \mid NormalChar) +$
 $Line2 \rightarrow (MarksNoBracket \mid Remove \mid NormalChar) +$
 $Line3 \rightarrow (Marks1 \mid Remove \mid NormalChar) (Marks2 \mid$
 $\quad Remove \mid NormalChar) *$
 $Line4 \rightarrow (Marks3 \mid Remove \mid NormalChar) +$
 $Line7 \rightarrow (Marks6 \mid Remove \mid NormalChar) +$
 $NewLine \rightarrow NEWLINE +$
 $NormalChar \rightarrow (LETTER \mid SPACE \mid OTHER) +$
 $UrlChar \rightarrow (LETTER \mid OTHER \mid MarksNoBracket) +$
 $LetterDash \rightarrow (LETTER \mid OTHER \mid DASH) +$
 $Marks \rightarrow (DASH \mid SHARP \mid COLON \mid BAR \mid$
 $\quad BRACER \mid BRACKETR) +$
 $MarksNoBrace \rightarrow (DASH \mid SHARP \mid COLON \mid BAR \mid$
 $\quad BRACKETR) +$
 $MarksNoBracket \rightarrow (DASH \mid SHARP \mid COLON \mid BAR \mid$
 $\quad BRACER) +$

Marks1 → (*DASH* | *BRACER*) +
Marks2 → (*DASH* | *COLON* | *BRACER*) +
Marks3 → (*DASH* | *SHARP* | *COLON* | *BRACER*) +
Marks4 → (*SHARP* | *COLON* | *BAR* | *BRACKETR*) +
Marks6 → (*DASH* | *SHARP* | *COLON* | *BRACKETR*) +
Remove → *Template*
 → *Brace*
 → *Link*
 → *Url*
Template → *BRACEL BRACEL SPACE* * *NewLine*?
 ((*LetterDash SPACE* * ((*BAR WellFormed3* *
 (*BAR WellFormed1**)? *BRACER BRACER*) |
 (*WellFormed1* * *BRACER BRACER*))) | ((*Remove*
 Marks4) *WellFormed1* * *BRACER BRACER*)))?
Brace → *BRACEL (WellFormed1* * *BRACER*)?
Link → *BRACKETL BRACKETL SPACE* *
 ((*COLON Line2?* (*BRACKETR BRACKETR*)?) |
 (*LetterDash*
 ((*COLON Line2?* (*BRACKETR BRACKETR*)?) |
 (*Line3 (SHARP SPACE* * *Line4?*)? (*BAR*
 SPACE * *Line2?*)?
 (*BRACKETR BRACKETR*)?) |
 (*SHARP SPACE* * *Line4?* (*BAR SPACE* *
 Line2?)? (*BRACKETR BRACKETR*)?) |
 (*BAR SPACE* * *Line2?*
 (*BRACKETR BRACKETR*)?)))?
 (*BRACKETR BRACKETR*)?) |
 (*Remove Line3?* (*BAR SPACE* * *Line2?*)?
 (*BRACKETR BRACKETR*)?) |
 (*SHARP SPACE* * *Line4?* (*BAR SPACE* *
 Line2?)? (*BRACKETR BRACKETR*)?)))?
Url → *BRACKETL SPACE* * ((*UrlChar* | *Remove*) +
 (*SPACE* + *Line2?*)? *BRACKETR*)?