

---

MODULE *Md2LaTeXAlgorithms*  
 EXTENDS *Md2LaTeXSystemDesign, Functions*

---

At run time / compile time, the preferences file is parsed,  
 which yields a dictionary (in Python) / *HashMap* (in *Java*) object,  
 namely 'preferences\_as\_dict'.

We specify the parsing process.

VARIABLE *preferences\_as\_dict*

If it is No, then no setting.

So, current key is off *preferences\_as\_dict*.

First, filter:

$$\begin{aligned} filteredKeys &\triangleq \{ \\ &\quad key \in \text{DOMAIN } preferences : \\ &\quad \quad \wedge isFollowingYesOrNoPolicy(preferences[key]) \\ &\quad \quad \wedge preferences[key][Y\_N] \notin JSON\_NO \\ &\} \end{aligned}$$

Next, stir up:

$$parsing \triangleq [key \in filteredKeys \mapsto preferences[key]]$$

Initial state

$$\begin{aligned} InitAlgorithms &\triangleq \\ &\quad \wedge InitSystemDesign \\ &\quad \wedge preferences\_as\_dict = preferences \end{aligned}$$

Next state

$$\begin{aligned} NextAlgorithms &\triangleq \\ &\quad \wedge NextSystemDesign \\ &\quad \wedge preferences\_as\_dict' = parsing \end{aligned}$$


---