Example of Conversion RE to NFA

Language: For alphabet $\{\mathtt{a}, \mathtt{b}\}$, all strings that start with letter $\mathtt{a}$ or where every letter $\mathtt{a}$ is followed by letter $\mathtt{b}$

$$\text{RE:} \quad \mathtt{a}(\mathtt{a}+\mathtt{b})^* + (\mathtt{ab}+\mathtt{b})^*$$

becomes (where we've simplified some of the constituent FAs)