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A grammar is a set of production rules which are used to generate strings of a language.

1. Derivation is a sequence of production rules. It is used to get the input string through these production rules. During parsing, we have to take two decisions. These are as follows:

* We have to decide the non-terminal which is to be replaced.
* We have to decide the production rule by which the non-terminal will be replaced.

1. A **production** or **production** rule in **computer** science is a rewrite rule specifying a symbol substitution that can be recursively performed to generate new symbol sequences. A finite set of **productions** is the main component in the specification of a formal grammar.
2. A **sentence** is a sentential form consisting only of terminals such as a + a \* a.
3. **empty** word is the unique string of length zero.