chapter 02 context free languages. what did we learn so far?

- DFA/NFA computers with extremely limited memory
- Regular expressions
 - Recipe to describe languages that are regular.

How about creating slightly powerful computational model?

Instead going directly to the new computation model, let's try to learn about something called context free grammar.

Context free grammar to context free languages is what regular expression are to regular languages,

- * context free grammar is a collection of substituition onless also known as productions.
- * Each rule appears as a line in the grammar.
- * Each line comprises of a symbol, arrow, and a string.

Ex! A — String arrow arrow

- to the string can consist of variables, and other symbols called terminals.
- * variables are often represented using capital letters, terminals are represented using lowerese letters, numbers or special symbols

A -) o A b _ terminal

* One variable is designated starting

Variable.

what we know now F= { 0 1 | n > 0 } is not regular. と, 些 A => OAI => OOAII 000BIII (= 000AIII

0000 = 1113000