PS04-05: Closures

January 28, 2018

Let A and B be two CFLs with start variable S_A and S_B, respectively.

1. Union. Given A and B, let C be a CFL with a grammar as follows:

$$S \to S_A | S_B$$

2. Concatenation.Given A and B, let C be a CFL with a grammar as follows:

$$S \to S_A S_B$$

3. Star. Given A let C be a CFL with a grammar as follows:

$$S \to S_A S | \varepsilon$$