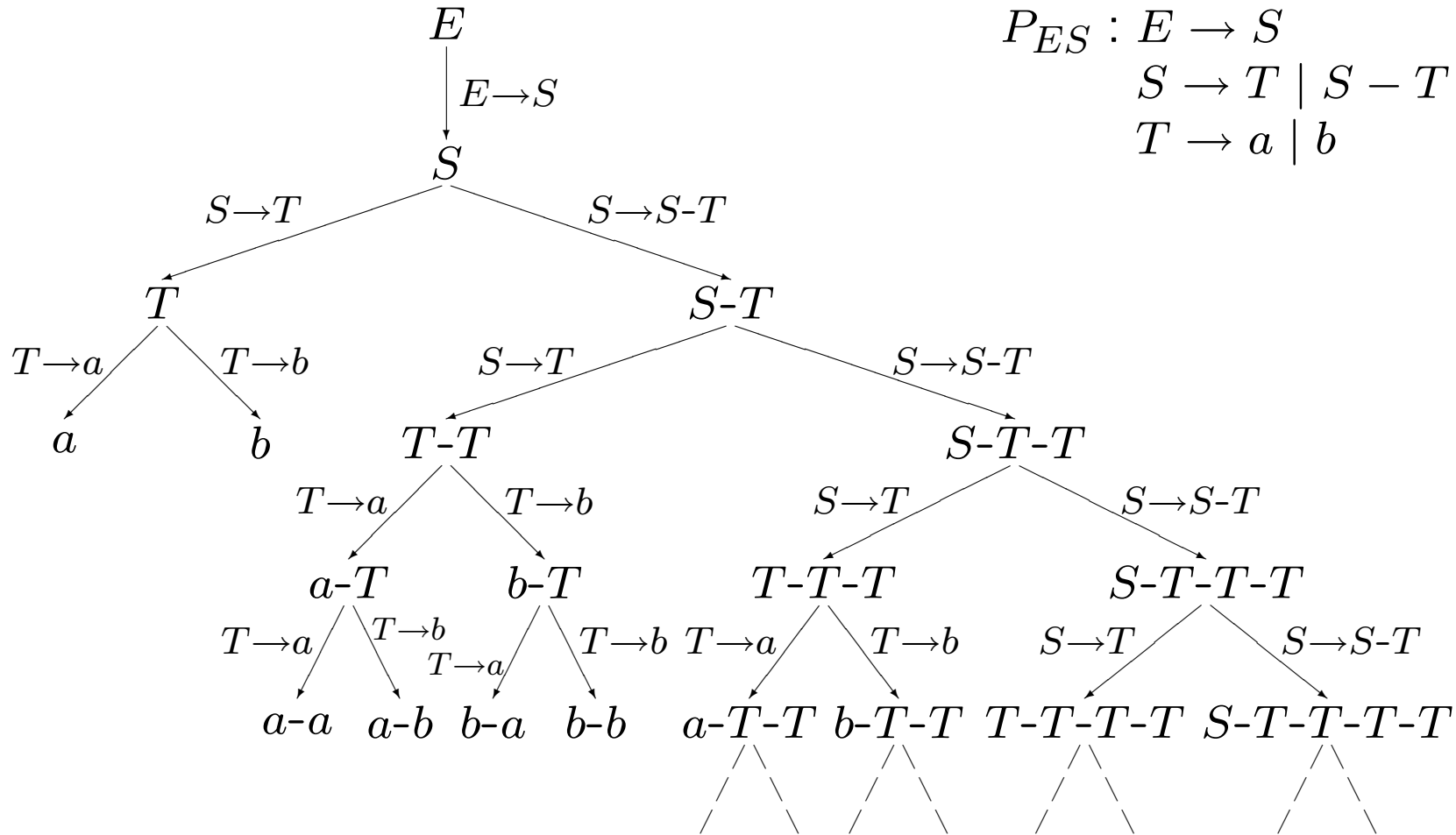


Grafo (Esquerdo) de uma Gramática

$$ES = (\{E, S, T\}, \{a, b, -\}, P_{ES}, E)$$

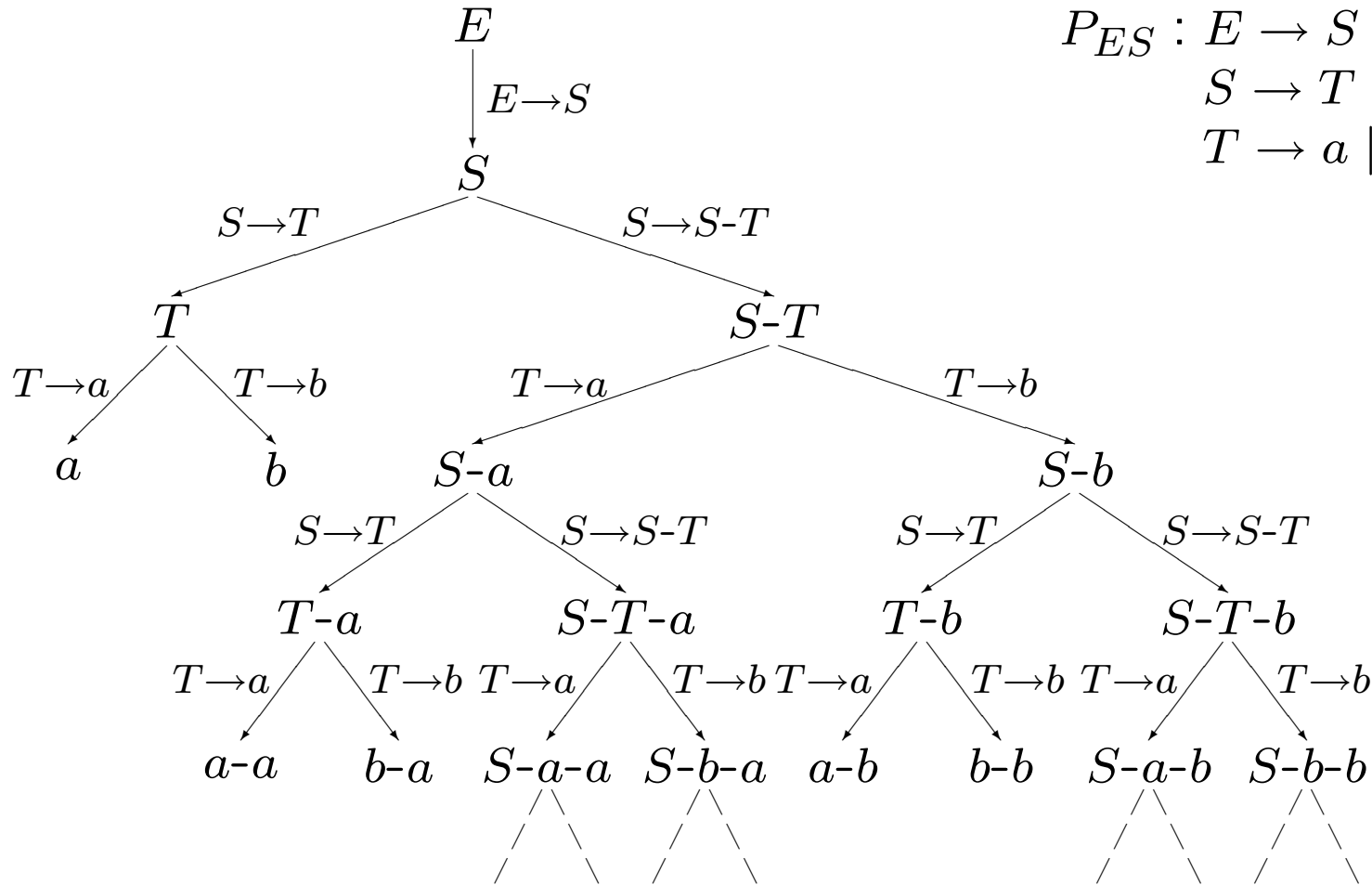
$$P_{ES} : \begin{aligned} E &\rightarrow S \\ S &\rightarrow T \mid S - T \\ T &\rightarrow a \mid b \end{aligned}$$



Grafo Direito de uma Gramática

$$ES = (\{E, S, T\}, \{a, b, -\}, P_{ES}, E)$$

$$P_{ES} : \begin{array}{l} E \rightarrow S \\ S \rightarrow T \mid S - T \\ T \rightarrow a \mid b \end{array}$$



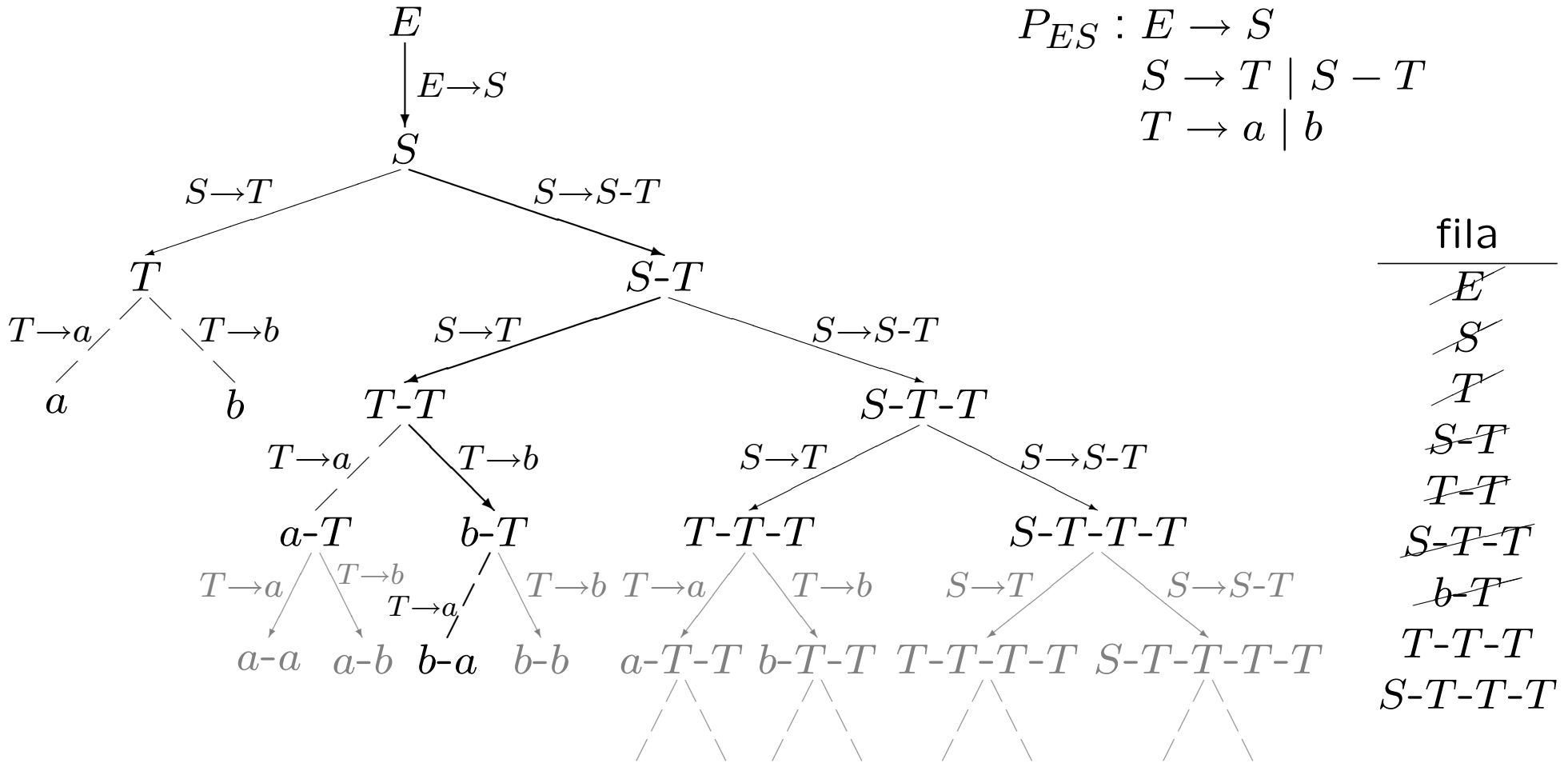
Análise Sintáctica Descendente em Largura

$$ES = (\{E, S, T\}, \{a, b, -\}, P_{ES}, E)$$

$$P_{ES} : E \rightarrow S$$

$$S \rightarrow T \mid S - T$$

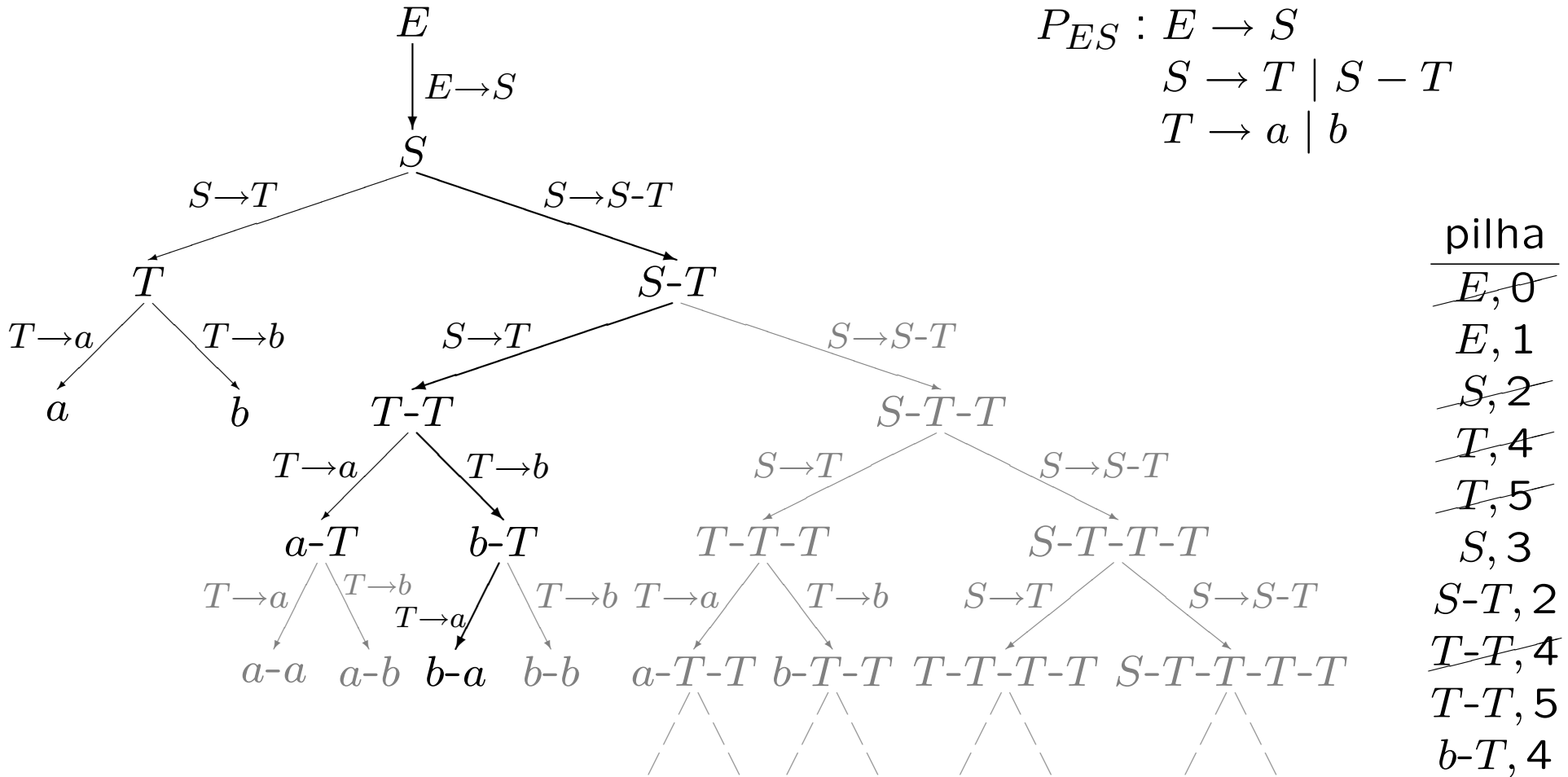
$$T \rightarrow a \mid b$$



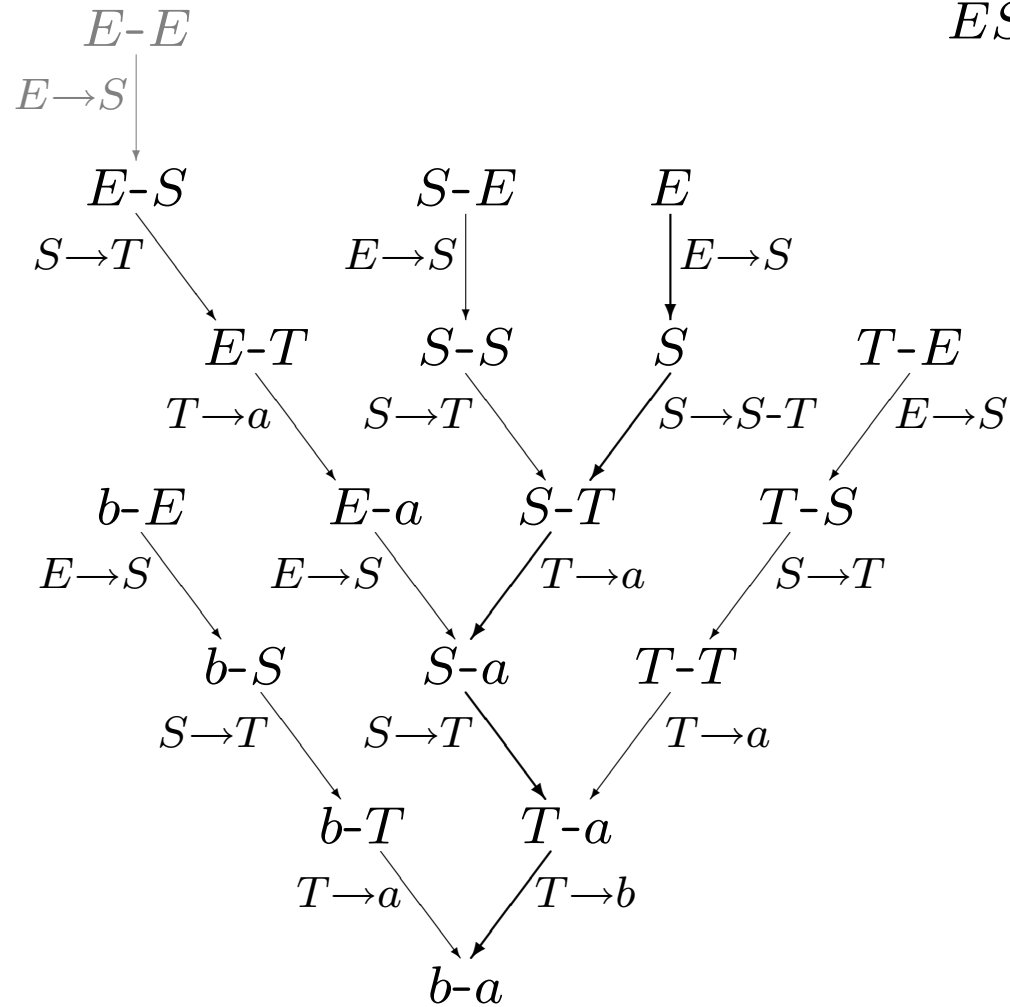
Análise Sintáctica Descendente em Profundidade

$$ES = (\{E, S, T\}, \{a, b, -\}, P_{ES}, E)$$

$$P_{ES} : \begin{aligned} E &\rightarrow S \\ S &\rightarrow T \mid S - T \\ T &\rightarrow a \mid b \end{aligned}$$



Análise Sintáctica Ascendente (em Largura)



$$ES = (\{E, S, T\}, \{a, b, -\}, P_{ES}, E)$$

$$P_{ES} : E \rightarrow S$$

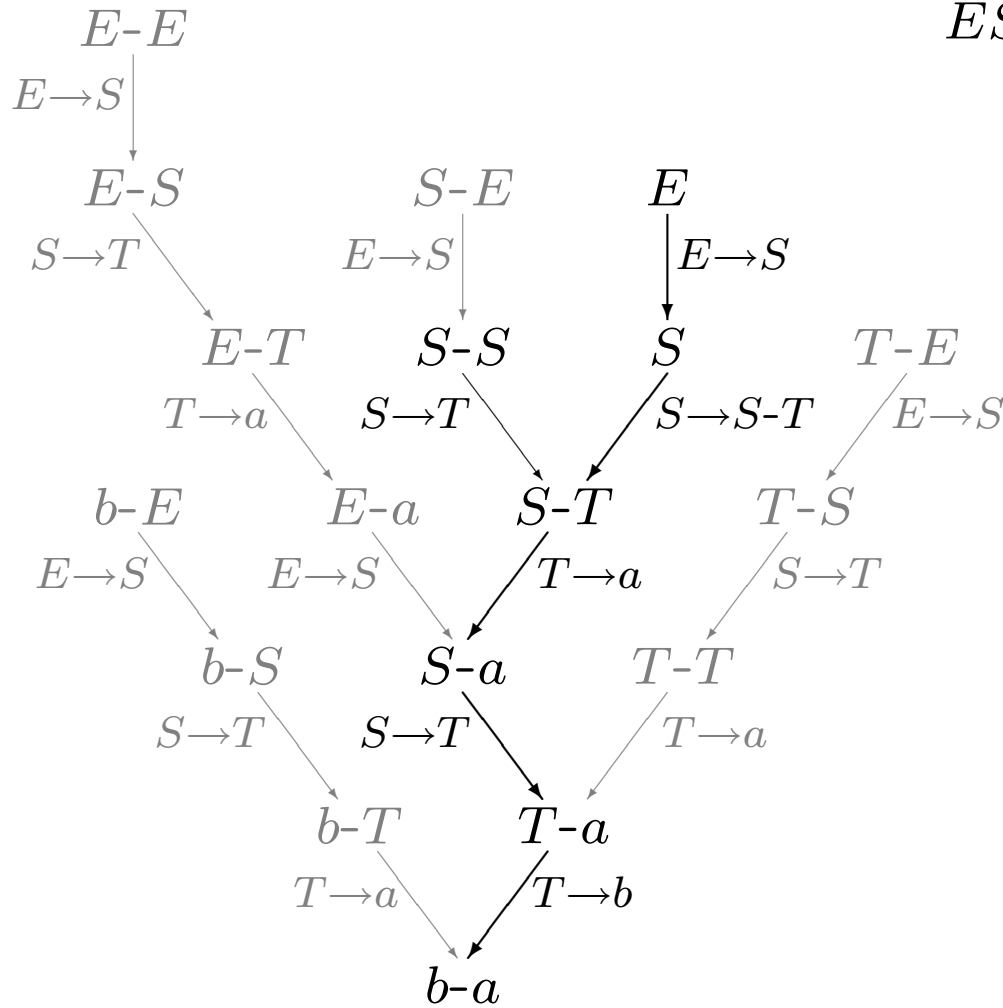
$$S \rightarrow T \mid S - T$$

$$T \rightarrow a \mid b$$

fila

$b-a$	$S-T$
$b-T$	$T-S$
$T-a$	$E-T$
$b-S$	$S-S$
$S-a$	S
$T-T$	$T-E$
$b-E$	$E-S$
$E-a$	$S-E$

Análise Sintáctica Ascendente em Profundidade



$$ES = (\{E, S, T\}, \{a, b, -\}, P_{ES}, E)$$

$$P_{ES} : E \rightarrow S$$
$$S \rightarrow T \mid S - T$$
$$T \rightarrow a \mid b$$

pilha

~~$\lambda, 0, b - a$~~
 $b, 5, -a$
 $T, 2, -a$
 $S - a, 4, \lambda$
 ~~$S - T, 2, \lambda$~~
 $S - T, 3, \lambda$
 $S, 1, \lambda$