Primitive Types

$$\langle single Quote \rangle ::= '$$
 $\langle double Quote \rangle ::= "$
 $\langle int \rangle ::= [integer]$
 $\langle bool \rangle ::= 'true' | 'false'$
 $\langle char \rangle ::= \langle single Quote \rangle [character] \langle single Quote \rangle$
 $\langle string \rangle ::= \langle double Quote \rangle [character*] \langle double Quote \rangle$
 $\langle null \rangle ::= 'null'$

Algebraic Data Types and Type-Traits

$$\begin{split} \langle adt \rangle &::= \text{`type'} \ \langle ident \rangle \ \text{``} \{\text{`} [\langle ident \rangle \text{`:'} \langle type \rangle [\text{`,'} \ \langle ident \rangle \text{':'} \langle type \rangle]^*]'\}' \\ \langle trait \rangle &::= \text{`trait'} \ \text{``} \{\text{'} \langle type \rangle [\text{`,'} \ \langle type \rangle]^*'\}' \end{split}$$

Arithmetic and Boolean Operators

Functions

$$\langle prog \rangle ::= \text{ [`fn' } \langle ident \rangle \text{[`['} \langle type \rangle \text{[`,'} \langle type \rangle \text{]*']'} \text{]'} \text{('[} \langle arg \rangle \text{ [`,'} \langle arg \rangle \text{]*'} \text{]'} \text{)'[`->'} \langle type \rangle \text{]`='} \langle smp \rangle \text{`;']*}$$