MiniML Grammar Spec

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1 Change Log

• 2 fevrier, 2023 Première Version

2 Notes

2.1 Todo

- Fix Match_Case
- Fix NewContructor_Case

3 Tokens

3.1 Symbols

3.2 Separators

```
{ } [ ] ( ) ; : , * -> | =
```

3.3 Operators

```
+ * - / & |
```

3.4 Mots-Clefs

let rec fun in match with type of if then else

3.5 Types

int bool

3.6 Valeurs_Atomiques

```
nombre := ('-')?['0'-'9']*
boolean := ("true"|"false")
```

3.7 Identificateur

```
alphanum := ['a'-'z' 'A'-'Z' '0'-'9' '_']*
basic_ident := ['a'-'z' '_'] alphanum
constructeur_ident := ['A'-'Z'] alphanum
```

4 Grammaire

4.1 Variables

4.2 Types

4.3 Expressions

```
| let Variables = Expr in Expr # LambdaBinding (Sugar)
| if Expr then Expr else Expr # Condition
| Variables # Call
| match Expr with Match_Case

Match_Case := | Expr -> Expr
| Match_Case '|' Match_Case

Exprs_Ls := | Expr
| Expr , Exprs_Ls

Exprs_Seq := | Expr ; Exprs_Seq

4.4 Definitions

Def := | let Variable = Expr
| let Variables = Expr (Sugar)
| type = NewContructor_Case # Type Declaration
```

| constructeur_ident of Type

| NewContructor '|' NewContructor_Case

NewContructor_Case :=