

Miscellaneous utilities

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Contents

Reminder : all builtin functions can be found documented [here](#)

Exporting definitions

```
'defX { 1 dupn swap def export } def 'defX export
'synonym { $ def } defX
```

Navigating the environment

```
'show-context {
  "" hypotheses
  { dup variable type swap "%s : %v\n%s" format } each
  print pop
} defX
'showdef { pattern-index 1 swapn swap index-insert set-pattern-index } defX
'vis { show-context "-----\n" printf show-stack } defX
```

Binders and contexts

```
'binder { 2 shaft { ${ swap } -> ${ } ${ } } } defX
'funs { swap reverse { swap '! $ binder } each exec } defX
'prods { swap reverse { swap '? $ binder } each exec } defX
'# { swap cons } defX
```

Constructing typed terms

```
'Type { 0 universe pull } defX
```

```

'forall { { extro-forall } swap times } defX
'lambdas { { extro-lambda } swap times } defX
'appls { range { pop apply } each } defX
'applyl { { swap apply } each } defX
'recursor { dup 2 shaft -> variable mu ! } defX

'( '[ $ defX
') { ] applyl } defX

```

Managing the type environment

```

'-> { dup 1 swapn swap intro { , { dup } variable pull } def } defX
'! 'extro-lambda $ defX
'? 'extro-forall $ defX

```

Defining inductive constructors

```

'defconstr { 1 dupn swap showdef def } defX

```

Acting on list as stacks

```

'in-list {
  swap {
    , { } set-stack ${ }
    { , { , { stack } } set-stack , { stack } } exec
  } exec
} defX

```