Oz Programming: Basic syntax cheatsheets

This document is a non-exhaustive reminder of the syntax of the Oz programming language. It is always possible to improve it and your help is therefore welcome. Source code and the latest version of the pdf can be found at the following address:

https://github.com/el-nounou/Oz-syntax-cheatsheet

Keywords	Meaning
Basic statements	
Var =	variable assignment
declare Var	global declaration of Var
local Var in	
• • •	local declaration
end	
<pre>fun {FunName Arg1 ArgN}</pre>	C 1 C
	function definition
end	
<pre>proc {ProcName Arg1 ArgN}</pre>	procedure definition
end	procedure definition
if Condition1 then	
11 Conditioni then	
elseif Condition2 then	
• • •	if \dots else if \dots else \dots
else	
•••	
end	
<pre>case Var of Pattern_1 then</pre>	
[] Pattern_2 then	pattern matching
else end	
Booleans expressions and operators	
	false value
false .	true value
true	
andthen	logical and
orelse	logical or

Florian Felten 1

Object-oriented programming

 $X = \{NewCell Y\}$

@X

X := Z

Florian Felten 2

cell creation (multiple assignment variable)

access to the cell's current content

changes the content of the cell

```
class AClass
         attr a1 ... an
         meth init(Arg) ... end
                                                            class definition
         meth m1 ... end
        meth mn(Arg) ... end
end
X = {New AClass init('arg')}
                                                     object creation and use
{X m1}
                          Exceptions handling
                                                     throws an exception E
raise E end
                                                  catches a raised exception
try ... catch X then ... end
                        Concurrent programming
                                                           thread creation
thread ... end
```