

ARMA 3 SQF Cheat Sheet

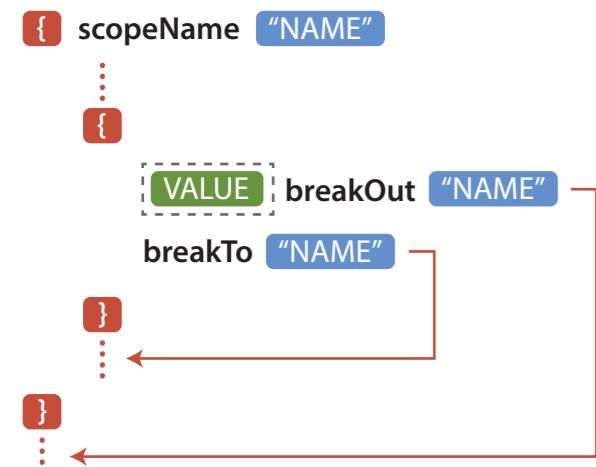
Conditionals

```
if (CONDITION) then {BLOCK} [else {BLOCK}] ↵
if (CONDITION) exitWith {BLOCK}
switch (EXPRESSION) do {
    case VALUE ; ↵
    case VALUE : {BLOCK} ;
    default {BLOCK} ;
}
```

Iteration

```
while {CONDITION BLOCK} do {BLOCK} ↵
for [ {BEFORE} , {CONDITION BLOCK} , {AFTER} ] do {BLOCK} ↵
for "VARIABLE" from START to FINISH [step STEP] do {BLOCK} ↵
{BLOCK} forEach (EXPRESSION) _x _forEachIndex ↵
waitUntil {CONDITION BLOCK}
```

Breaking Scopes



Exceptions

```
try {
  throw VALUE
}
catch {BLOCK} _exception
for unscheduled remoteExecCall same arguments as remoteExec
```

special owner-id's 0 all including caller
2 server
jip true, unique-id, object, group or net-id

Types

any isEqualTo any more general than ==
isNil "variable" variable undefined
isNil code result undefined
isNull object object deleted
nil undefines variable if assigned
typeOf object CfgVehicles name

any typeName any "STRING", "BOOL", ...
array isEqualType any
array isEqualTypeAll array all lhs are rhs type
array isEqualTypeAny array all lhs are one of rhs types
array isEqualTypeArray array set of types are equal
array isEqualTypeParams array pairwise type comparison

Locality

hasInterface player
isServer server
!(isServer || hasInterface) headless
isDedicated should almost never be used
isMultiplayer
local object true for local objects

↳ Indicates that the selected block value (for if and switch) or the final block value (for loops) is returned, or nil if no block was executed.

Parameters

```
array _this params [parameters ...]
each parameter "_local"
or ["_local", default nil, types-array any, array-sizes any]
type name strings ARRAY DISPLAY SCRIPT
        BOOL GROUP SIDE
        CODE LOCATION STRING
        CONFIG OBJECT TEXT
        CONTROL SCALAR NAMESPACE
```

Functions

```
class CfgFunctions {
  class Tag {
    class Category {
      file = "path"; defaults to "functions\Category"
      class Name {} ...
    }
  }
}
loads from \path\fn_Name.sqf
called as Tag_fnc_Name
```

arguments nil remoteExec [functionName, targets all, jip no]
targets owner-id execute on node id
- owner-id all excluding node id
object where object is local
side where player is on side
group where player is on group
array combination of the above

special owner-id's 0 all including caller
2 server

Strings

```
format [format, values ...] "%1 is first"
any isEqualTo any A=a
isLocalized message-name
array joinString separator
loadFile file-name
localize message-name
string select [index, count]
string select [index] index to string end
string splitString delimiters
str value
toArray string
toLower string
toString array inverse of toArray
toUpperCase string
string + string
string == string A=a
```

(CONDITION)

Conditions for if and switch typically (but don't always) require parenthesis due to the precedence rules.

Numbers

trigonometric functions take degrees

abs number
x atan2 y
deg radians
finite number
number max number
number min number
number mod number
rad degrees
random maximum
parseNumber string
round, ceil, floor,
acos, asin, atan, cos, exp,
ln, log, pi, sin, sqrt, tan number

Vectors

three element arrays required

vector vectorAdd vector
vector vectorCos vector cosine of angle
vector vectorCrossProduct vector
vector vectorDiff vector subtraction
vector vectorDistance vector
vector vectorDistanceSqr vector
vector vectorDotProduct vector
vector vectorFromTo vector unit vector
vectorMagnitude vector
vectorMagnitudeSqr vector
vector vectorMultiply scalar
vectorNormalized vector

Arrays

```
array append array in place
array apply function defines _x
array arrayIntersect array A=a
count array
condition count array defines _x
array deleteAt index
array deleteRange [index, count]
array find value A=a
value in array A=a value is non-array
array isEqualTo any A=a
array pushBack value
array pushBackUnique value
array resize count
reverse array
array select index
array select boolean
array select [index, count]
array select condition defines _x
array selectRandom array
array set [index, value]
array sort boolean true for ascending
+ array deep copy of array
array + array
array - array A=a sub-arrays not compared
```

optional part optional-argument default-value
Optional parts and optional command arguments are shown as above.

Precedence

Lowest	1		or
	2	&&	and
	3	== != > < >= <= >>	
	4	All other binary operators.	
	5	else	
	6	+ - max min	
	7	* / % mod atan2	
	8	^	
Highest	9	All unary operators.	

Configs

conditions are strings, passed config in _x

condition configClasses config
configFile root config
configHierarchy config array of superclasses
configName config
configProperties [config, condition true, inherit true]
configSourceMod config created by mod
configSourceModList config edited by mods
getArray config
getMissionConfig name sqm or description.ext
getMissionConfigValue name sqm or description.ext
getNumber config
getText config
inheritsFrom config superclass of config
isArray config
isClass config
object isKindOf name for CfgVehicles, CfgAmmo
name isKindOf name for CfgVehicles, CfgAmmo
name isKindOf [name, config]
isNumber config
isText config
missionConfigFile description.ext root config
config >> name low precedence, always use parenthesis
config == config isEqualTo also works



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