

MasterPlan 1.7.5 Documentation 2005-02-23 Anders Forslund

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# 1 Purpose

Masterplan is a Win32(9x/NT), utility designed primary for gamemasters of roleplaying games.

The MasterPlan software can for be used to create events, people, places, monsters, treasures, items etc etc with unique attributes

You can create custom scripts utilizing Your tables and generate for instance whole characters to any game system. Entire adventures can be generated this way...

Simulate complete combat encounters with custom scripts

What You need to do in order to use the MasterPlan software is tables with data. The software is shipped with a number of example files, but the main work has to be done by Yourself, this way, the only limit of what you can do with the software is Your own imagination.



# 2 MasterPlan Features

Table lookup, both fixed and random **Scripts** Reference tables and scripts Multiple and relative referencing Recursive referencing Dice functions(replaces dicesets with results) Printing and exporting functions Script conditional control flow. Create invisible variables to save generated values. These values can be used later in the script or by tables. Variables can be numbers or characters. Invisible variables can be used in table headers, affecting the outcome from a specific table. No duplicate of entries in the the same instance unless there is a limited amount of entries - especially useful in scripts. Treeview explorer for easy browsing of resource files Mathematical expressions +,-,\*,/,\,^,%(MOD) Mathematical functions Cos,Sin,Tan,Sqr,Exp,Log Rnd(Round), Val(converts strings to numbers) PI constant, Now constant(returns current system date and time)) Other functions Get(string) gets user input, string is the text that will be displayed. The mathematical expressions/functions can be used in conjunction with invisible variables.

Table Editor Script Editor Code completion for references Dice Probablility Analysis(Shadowrun, Hjältesystem)

# **3** System Requirements

The software is tested on NT4,Win2k,W98SE and should have no problem running on any machine capable of running these operating systems.



# 4 About the goals of MasterPlan

The first inspiration for MasterPlan came from a truly amazing RPG sourcebooks, the Central Casting-series from Task Force Games(http://www.task-force-games.com), of course then we could see all sorts of possibillites!

The MasterPlan software have been developed with the basic purpose of that it should be possible to fully recreate the Central Castings-books and we truly believes it is possible to do this.

# 5 About AnderWare

AndersWare consists of roleplayers who strive to ease the burden for gamemasters. The MasterPlan software exists because we wanted a useful software to help our gamemasters, that means that resourcefiles will continually updated as we create new ones. If You make a good resourcefile that You think other gamers may find useful, please submit it to us and we will publish it on our website.

The software is Freeware, running it is at Your own risk. AnderWare takes no responsibility for any damages to your computers hard- or software the MasterPlan software may cause.

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# 6 About this manual

Some screenshots are taken from earlier versions of the software and thus maybe not entirely correct. However, all screenshots used in this document depicts the topic that is covered.



# 7 Installation and Configuration

## 7.1 Installation

Simply run the supplied setup.exe from your file manager of choice (I recommend Total Commander but Windows Explorer works as well.)

## 7.2 Configuration

MasterPlan is set to work with a minimum of configuration. They are found in the menu File\Settings



This will bring upp the Settings dialog.





Settings
Path Settings
Library Path
F:\ACD\data\anderware\vb\Masterplan\MasterPlan\LIB
Fonts Settings
Font Name
Courier .
Size 12 🗖 Bold 🔲 Italic
Use this font in script editor
Use this font in table editor
Use this font for output
Use this font for lists
<u>Cancel</u>

## 7.3 Library Path

In order to make it possible for the software(the MasterPlan Explorer viewern in particular) to work properly it is neccessary to set the path to the resource files folder.

# 7.4 Font Settings

To enhance the readability of scripts etc is it possible to select another font that suits your taste. It is recommended to use a fixed width font such as Courier for this.



# 8 Graphical Interface

MasterPlan uses standard Windows MDI(Multiple Document Interface), meaning of course that you can have several smaller windows open at the same time.

📭 MasterPlan 1.7.1	
File Edit View Window Help	
MultiRow Test	Table Editor (\Multi row.tbl)         Title         MultiRow Test         Modifier         Frequency         Entry         1         The fox strikes again         without fear for the hunter.         1         The burner.         The burner.         The burner.         Emergen Bare         Save         Save As
Script\Goto_test.spt   Script   E:\AFD\data\AnderWare\VB\Masterplan\   Jump test script   4	Table & Script Editor\Goto_test.spt       □         Jump test script       •         ??Diceroll=0??       •         LABEL:Until       •         ??Diceroll=Diceroll+@1D10@??       •         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●         ●       ●       ●

## 8.1 Keyboard Shortcuts

All menus kan be reached by keyboard commands. On these screenshots the actual commands are not shown. Simply hold the ALT-key down and the shorrtcuts will appear.



## 8.2 Tooltips

For graphical buttons, a tooltip will appear with a description of the button when the cursor is positioned over the button for a few seconds.

## 8.3 Open File Dialog

Three dots(...) always signifies the File Open Dialog and can be found in menues



File	Edit	View	Window Help
T (	able	•	Open Table
S	cripts	•	New Table
S	ettings		Edit Table
Print			Import into table
E	xport	1	
E	xit		

or on buttons also used is the familiar folder icon.



? | X | 🗢 🗈 💣 🎫+ • Leta i: 🔂 Fantasy 🔊 German Male Names 1200-1250.tbl 10th Century Frisian Masculine Names.tbl C 🍓 15th Century English Men's Names.tbl Anglosaxon Name Male.tbl Fidigare fantasy generated name frag1.tbl 🔊 fantasy generated name frag2.tbl Skrivbord fantasy generated name frag3.tbl fantasy generated name.tbl 🔊 Fantasy Name Male.tbl 🛋 fantasy\_currency.tbl Den här datorn 🔊 gender.tbl Þ Öppna Anglosaxon Name Male.tbl Filnamn: • Filformat: Table (\*.tbl) -Avbryt 🔲 Öppna som skrivskyddad

# 8.4 Printing /exporting data

All generated output can be printed to a Windows printer and also exported into ASCII text file. It is also possible to print/export tables and scripts.





# 8.5 Aborting running processes

It is quite possible to accidently design tables and scripts that can get stuck in an infinite loop (a table calling itself over and over for example). When a table or script is being processed a special menu item appears, the "Abort Running Processes!". Clicking this will stop processes running.

II) M	laste	erPlan 1	.7.1		
File	Edit	View	Window	Help	Abort Running Processes!
m) s	icrip	t\Ref	erence.s	pt	
Scrip	ot E:	\AFD\d	ata\Ander\	Ware\V	/B\Masterplan\ 🖻 🖌 💋
					×
					<b>T</b>
Ľ					



# 9 MasterPlan Explorer

In order to make it easier to browse and run the resource files, a treeview explorer is supplied. The files showed here are the legit resource files found(recursively) in the Library Path (see above on how to change the Library Path).

By simply clicking the resource file(table or script) the result is shown in the output window to the right.



It is also possible to rightclick a resource and select an alternative from the popup menu that appears.





#### 9.1.1 Run

Returns the resource file result in the output window to the right(same as leftclicking the resource file)

#### 9.1.2 Run As New Instance

Opens up a Single List window if it is a table or a Script window(if it is a script) with the resource file.

#### 9.1.3 Edit

Opens up a Edit Table window if it is a table or an Edit Script window(if it is a script) with the resource file.

#### 9.1.4 Delete

Deletes the resource after checking with the user.

#### 9.1.5 Refresh

Rereads the library path and load the valid resource files into the Explorer





# 10 Tables

The heart of MasterPlan!

Each table contains a number of entries. Each entry consists of a text and a number describing that entrys probability(frequency) of the total in that table.

In the example below there is two entries

📪 Table	🗊 Table Editor (\Gender.tbl)								
Title Ge	Title Gender								
Modifier									
Frequenc	y Entry								
1	1] womar	1							
	9 man								
E 🗲 🗌			, <mark>H</mark>		1				
<u>Upen</u>	New	<u>5</u> ave	Save <u>A</u> s	New row	<u> </u>				

# 10.1 Running Tables

File Edit	Viev	v Window Help	
Table	•	Open Table	
Scripts	• •	New Table	
Settings		Edit Table	
Print		Import into table	
Export	-		
Exit			
📪 Singl	e List	Actions	
	Actio	ns 🚘 🯑 Seduce	

Each click on the name button generates new data. The Open file-button opens up the file open dialog. It is also possible to open up the table in editor-mode by clicking the Edit file -button

\_

## 10.2 Listpage

Sometimes You probably want to be able to run several tables at once and thats what the Listpage are for!



Name	<b>~</b>	A	<b>_</b>
Hit Area	<b>#</b>	Å	
Actions	<b>2</b>	Å	<b>•</b>
Citizens	<b>~</b>	Å	<u> </u>
City Establishment		Å	
Click the button on the right to select a table	<b>2</b>	A	<b>•</b>
Click the button on the right to select a table	<b>#</b>	Å	<u> </u>
Alignment	<b>2</b>	A	
Click the button on the right to select a table	2	A	<b>•</b>
Click the button on the right to select a table	2	A	<u> </u>
Click the button on the right to select a table	2	A	
Click the button on the right to select a table	<b>2</b>	A	

# 10.3 Editing Tables

Each text can reference other tables, including the same table

The naming of tables are of course important in order to avoid duplicates and hardtraced errors. The tablename is not casesensitive, but when you make a reference to it, it is important to make it in the right case for the the the right desired result.

The more detail you put into the table files the more accurate results will be generated. For instance, a list of the names and titles of the nobles in your country instead of randomly generated nobles.





One approach would be to use the MasterPlan software when You create Your world/campaign from the beginning.

That way You will have accurate information about Your campaign right at Your fingertips thereafter.

You should always design Your tables carefully, a good design allows you to re-use your tables many times!

While it is possible to use any texteditor(including the Script Editor in MasterPlan) to edit tables, the Table Editor makes it much easier , leaving you to focus on the data itself. The Table Editor makes all the neccesary frequency calculations and makes it easier to group entries together.



📪 Table	e Editor				<u>_   ×</u>
Title					
Modifier					
Frequen	cy Entry				
<u> </u>	<b>B</b>				- 5
<u>O</u> pen	New	<u>S</u> ave	Save <u>A</u> s	New row	<u>Ř</u> un

#### 10.3.1 Inserting new row

Just select a row and press the Insertkey or use the New Row button.

#### 10.3.2 Deleting row

Just select a row and press the Deletekey. Note: There is NO undo!

#### **10.3.3 Multiple Rows in tables**

It is possible for entries to span several rows. Just make sure that the row's Frequency is blank.





📪 Table B	Editor (\Multi row.tbl)	×					
Title MultiRow Test							
Modifier							
Frequency	Entry						
1	The fox strikes again						
	without fear for the hunter.						
1	The horse gallops						
1	Twohundred miles to the west an old man						
	and his wife starts the day with a cup of coffee						
	on their veranda, basking in the morning sun						
1 Alone again							
Open	D ☐ ♀ ♀ <u>N</u> ew Save Save As New row Bun						

or in code

```
MultiRow Test¤4
1§ The fox strikes again
without fear for the hunter.
2§The horse gallops
3§Twohundred miles to the west an old man
and his wife starts the day with a cup of coffee
on their veranda, basking in the morning
4§Alone again
```

#### 10.3.4 Modifier

In order to influence the result of a table it is possible to use modifier. This modifier works like normal syntax(see section "Syntax" below)

This modifier will be added to the dice roll made. Most useful with variables.

#### 10.3.5 Clipboard Handling

Cut/Copy/Paste works rowbased on tables. That means that the Table Editor will try to Cut/Copy/Paste entire rows.

#### 10.3.6 Code completion for references

In order to make it easier for the user, code completion is implemented to some extent regarding references. This means that you do't have to remember exactly every tables filename. Whenever you enter the character for references(#) a list will appear with valid filenames to choose from and their titles as well. Note that this list only displays resources in the same directory as the base script/table.



Select Reference	
🚺 🗖 Display hidden resources 💼	
Title	File 🔺
🛃 Example Of Conditions In Scripts.spt	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
Example Relative Reference	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
Example Relative Reference Level -1	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
Example Relative Reference Sibling	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
🚽 🛃 Example Repeated References.spt	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
🛃 Example Simple Character Generation.spt	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
🛃 Example Simulated Combat.spt	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
🛄 Example Skills	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
Example Using Reference In Variables	E:\ACD\PRV\DOC\AnderWare\VB\Masterplar
Fvample Using Reference In Variables spt	E·\∆CD\PR\/\DOC\∆nderW/are\VR\Masterolat ▶
Relative reference path:	
<ul> <li>Use default case</li> <li>First character uppercase</li> <li>All characters uppercase</li> <li>Every word first character uppercase</li> </ul>	Cancel # Repeat 1

Just select the one you want and press OK. In some cases you might want to enter the reference by hand, like when building advanced relative references. Then simply use the #-button to insert only the #-character. To navigate subfolders, simply doubleclick the folder listed to display the contents of that folder. Use the Up One Level button to display the contnets of the parent folder.

## 10.4 Import into table

Just get some data in list form, paste in in and violá, instant table!





🗊 Table Importer	
Ælle Ælfwine Æðelbert Æðelfrid Æðelhun Æðelred Æðelwald Æðelwalh Aelfuini Aelfuini Aedilberct Aedilfrid Aedilhum	× F
Image: Constraint of the second se	

#### Choose Import

Table Import	×
Enter table name	OK Cancel
Anglo-Saxon Names	

#### Enter the table's title and save it

#### And the result:





#### **10.5 Table Source Format**

Though this is automatically handled by the Table Editor, it can be useful to know how it works "behind the scenes".

#### 10.5.1 Comments in a table

Comments in the table file are precedeed by semicolon(;). Lines beginning with semicolon are ignored. However, lines containing but not beginning with semicolon will be processed as normal.

#### 10.5.2 Syntax

The first line MUST be Title¤Dicefaces to roll and can also be followed of an VARIABLECHAR that is added to the diceroll.

For more information about available syntax, see below under section Syntax.

#### 10.5.3 Example of simple Table file(\*.tbl)

🕠 Table Editor (\Gender.tbl)					
Title Ger	nder				
Modifier					
Frequency	Entry				
11	11 woman				
	9 man				
	<b>D</b> 1		<b>1</b> 23		7
<u>O</u> pen	<u>N</u> ew	<u>S</u> ave	Save <u>A</u> s	New r <u>o</u> w	∕ 

#### 10.5.3.1 Raw file format

Gender¤20

11§woman 20§man

#### 10.5.4 Example of a more advanced Table file(\*.tbl)



#### 10.5.4.1 Raw file format



Treasure¤6??MonsterLevel?? 1§@1D3~@ #Weapon# 2§#money#|#WEAPON# 3§#Weapon^5# 4§#weapon^@1D4+1@# 5§#WEAPON# +@1d2+1@ 6§@3d4+2@ gold pieces 7§#WEAPON^@2D4-1~@#

#### 10.5.5 Another Table Example.

Table Editor (\Child_event.tbl)			
Title Childhood Event			
Modifier ??SolMod??			
Frequency Entry			
1 Tortured CON -1 ??CON=CON-1??			
1 Molested WIS-1 ??WIS=WIS-1??			
1 Trained xcccSTR+1 ??STR=STR+1??			
1 Blessed WIS+1 ??WIS=WIS+1??			
1 Learns ??SKILLS!#Skill#=2??			
1 Learns ??SKILLS!#Skill#=inc1??			
; inc means that if the skill is already assigned, increase			
; (or decrease)the value instead of replacing it with the value			
1 Learns ??SKILLS!#Skill#=inc-1??			
<u>  Upen   N</u> ew   <u>S</u> ave   Save <u>A</u> s   New r <u>o</u> w   <u>R</u> un			

#### 10.5.5.1 Raw file format

Childhood Event¤3??SolMod?? 1§Tortured CON -1 ??CON=CON-1?? 2§Molested WIS-1 ??WIS=WIS-1?? 3§Trained STR+1 ??STR=STR+1?? 4§Blessed WIS+1 ??WIS=WIS+1?? 5§Learns ??SKILLS!#Skill#=2?? 6§Learns ??SKILLS!#Skill#=inc1?? ; inc means that if the skill is already assigned,increase ; (or decrease)the value instead of replacing it with the value 7§Learns ??SKILLS!#Skill#=inc-1??





# **11 Scripts**

The possibility to run complex scripts makes MasterPlan powerful. With careful design of scripts and tables it is possible to generate just about anything from a quick NPC to a complete world!

# 11.1 Running Scripts

File	Edit	Vie	w Window Help
Ta	able	►	
S	ripts	•	Open Script
Se	ettings		New Script
Print			Edit Script
E:	kport		
E	kit		

The Open File dialog appears, choose the script you want and wait for it to finish.

🕞 Script\Example.spt	
Script E:\AFD\data\AnderWare\VB\Masterplan\MasterPlan\LIB\	\$ 1/ 5
Character generation started at 2003-01-09 12:25:00	<b>_</b>
Age 12	
Strength 9 Wisdom 8 Intelligence 13 Constitution 11 Dexterity 9 Hit Points 28	<b>_</b>
1	Þ

To run it again, simply press the Run button. Pressing the 3dot button will open the FileOpen dialog. To edit this script , just press the Edit button.

## 11.2 Editing Scripts

Editing script is just as easy as working in any text editor (like notepad).

File	Edit	Viev	w Window Help
Ta	able	►	
Se	ripts	•	Open Script
Se	ettings		New Script
Pt	rint		Edit Script
E	kport		
E	kit		



Table & Script Editor\Example Simple Character Generation.spt	
Example Simple Character generation	··
<pre>??NAME=GET(Enter heroe's name)?? ;Hidden variables ??LEVEL=VAL(GET(What level should the hero be?))?? ; roll attributes ??STR=@3d6@?? ??WIS=@3d6@?? ??INT=@3d6@?? ??CON=@3d6@?? ; Display character Name : ??NAME??</pre>	
<-Starting attributes-> Strength ??STR?? Wisdom ??WIS??	•
Cursor at line	11
Image: Constraint of the second se	

The current line that the cursor is positioned at is shown to the bottom right, making it easier to debug scripts.

#### 11.2.1 Code completion for references

In order to make it easier for the user, code completion is implemented to some extent regarding references. This means that you do't have to remember exactly every tables filename. Whenever you enter the character for references(#) a list will appear with valid filenames to choose from and their titles as well.

Select Reference					
	Ð				
	Title	File 🔺			
	Building Appearance	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Building Construction	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Building Size	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Building Types	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Business Types	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Corporate Buildings	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Corporation	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Corporation Name Operation	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Corporation Name Suffix	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Corporation Subsidiary	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Exterior Scents	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Exterior Sounds	F:\ACD\data\anderware\vb\Masterplan\Maste			
	Gang Armory Weapon Class.spt	F:\ACD\data\anderware\vb\Masterplan\Maste			
	<b>   </b>				
	<ul> <li>Use default case</li> <li>First character uppercase</li> <li>All characters uppercase</li> </ul>	Cancel # Repeat 1 -			

Just select the one you want and press OK. In some cases you might want to enter the reference by hand, like when building relative references. Then simply use the #-button to insert only the #-character.

## 11.3 Script Source Format

The scripts needs more hands-on than the tables, due to their more complex nature.

#### 11.3.1 Conditionals in Scripts

To control the flow through a script it is possible to use conditionals like IF-ELSE.

```
IF condition AND condition OR condition
statement(s)
ELSE
statement(s)
END IF
```

Note that:

Nesting of IFstatements are NOT supported. The IF/ELSE/END IF/AND/OR statements are casesensitive, ie must be capitals. You can not use parenthesis to group AND/OR.

#### 11.3.1.1 Condition Example

```
??Gender=Man??
??x=Man??
        * * * * * * * * * * *
Test of AND
IF ??Gender??=Man AND ??x??=Man AND 1=1 AND ??Gender??=??x??
 Condition is true
 ??Condition=True??
 Sweeter!
ELSE
 Condition is false
 ??Condition=False??
 Bum!
END IF
*****
Condition ??Condition??
Test of OR
IF ??Gender??=Man OR 1=2 OR 1=3
 Condition is true
 ??Condition=True??
 Sweeter!
ELSE
 Condition is false
 ??Condition=False??
 Bum!
END IF
Condition ??Condition??
Test of AND & OR
IF ??Gender??=Man OR 2=1 AND 1=2
 Condition is true
 ??Condition=True??
 Sweeter!
```



#### 11.3.2 Logical Jumps in scripts

It is possible to use GOTO statements. The label can be declared before the jump. Note that the GOTO/LABEL is casesensitive, ie you must use capital letters.

statements GOTO:labelname statements LABEL:labelname statements

or

statements
LABEL:labelname
statements
GOTO:labelname
statements

#### 11.3.2.1 Logical Jump Example

Jump test script
??Diceroll=0??
LABEL:Until

```
??Diceroll=Diceroll+@1D10@??
IF ??Diceroll??<100
??Diceroll??
GOTO:Until
ELSE
GOTO:End
END IF</pre>
```

LABEL:End Finished

#### 11.3.3 Ending Scripts

To terminate a script without running it to its end use END.

statements END: statements

#### 11.3.3.1 Ending Script Example

```
IF ??HitPoints??<0
Target destroyed
END:
END IF
The target still stands
```





#### 11.3.4 Script Example

Character generation started at ??NOW??

```
??NAME=GET(Enter hero's name)??
;Hidden variables
??LEVEL=VAL(GET(What level should the hero be?))??
??STR=@3d6@??
??WIS=@3d6@??
??INT=@3d6@??
??DEX=@3d6@??
??CON=@3d6@??
??Hit Points=(@ld8@+CON)*LEVEL??
IF ??STR??>16 AND ??CON??>13
??Profession=Fighter??
ELSE
??Profession=Bartender??
END IF
Profession
              ??Profession??
Strength
              ??STR??
              ??WIS??
Wisdom
Intelligence ??INT??
Constitution ??CON??
Dexterity
              ??DEX??
Hit Points
              ??Hit Points??
Sum
         ??STR+WIS??
Average ??(STR+WIS)/2??
Mod avg ??(STR+WIS)\2??
Round avg ??Rnd((STR+WIS)/2)??
Division ??1/3??
Round ??Rnd(1,75)??
Formula ??STR+WIS/2??
Sample ??2*5??
To the power ??2^4??
Trig
         ??Cos(180)??
Sqr
         ??Sqr(WIS)??
E ??Exp(1)??
Log ??Log(1)??
Ρi
         ??PI??
;comment
Equipment
#WEAPON^3#
Character Background
Social Level ??SolMod=@1d2+2@???SolMod??
Childhood Events
#Child_event^4#
Learned skills
??SKILLS!??
Character generation completed at ??NOW??
```

#### 11.3.5 Another script example: Simulated Combat

```
Combat Events
??MikeHitPoints=50??
??SecManHitPoints=25??
```

LABEL:INI Initiative



Mike R:6 = ??M\_INI=@1d12~@????M\_INI?? SecMan R:5 = ??S\_INI=@1d10~@???S\_INI?? IF ??M\_INI??>??S\_INI?? Mike Pistol 6 Attack := ??ATT=@1d12~@????ATT?? ??Attacker=Mike?? ??Defender=SecMan?? ??DEF=6?? ??Damage=@1d12~@?? ELSE SecMan Assaultrifle 5 Attack :??ATT=@2d10~@????ATT?? ??Attacker=SecMan?? ??Defender=Mike?? ??DEF=5?? ??Damage=@1d10~@?? END IF IF ??ATT??>??DEF?? ??HITAREA=@1d10@?? ??Attacker?? hits ??Defender?? in ??HITAREA??(#hit\_area=??HITAREA??#) doing ??Damage?? points of damage! ELSE ??Attacker?? misses ??Defender?? END TE IF ??Attacker??=Mike AND ??ATT??>??DEF?? ??SecManHitPoints=SecManHitPoints-Damage?? ELSE ??MikeHitPoints=MikeHitPoints-Damage?? END IF Current : ??MikeHitPoints?? Mike SecMan : ??SecManHitPoints?? IF ??MikeHitPoints??<1 OR ??SecManHitPoints??<1 ELSE GOTO: INI END IF IF ??MikeHitPoints??<1 Mike dead, sorry chummer! ELSE Rock&Roll chummer you've just wasted yet another security guard! END TE

#### 11.3.6 A more advanced script example: Kingdom Creation

```
;Script for MasterPlan
KINGDOMS
;Note that all figures in this script are in km, but can easily be converted to
miles
??UNIT=km??
Total population
;The total population of nations depends on a number of factors, some of which are
discussed in the following sections.
;AREA=total land area
AREA =??AREA=2500????AREA?? sqr??UNIT??
;WILD=uninhabited land as % of total: 20% is small, 40% is normal, 60% is big
WILD =??WILD=40????WILD?? %
;WASTE=on inhabited land, land unusable for agriculture, (march, mountains,
desert) as % of total: 10% is small, 20% is normal, 40% is big
WASTE = ??WASTE=20????WASTE?? %
```

		5

;COAST=length of coast: for purposes of food production, each mile (or km) of coast is assumed to equal 10 squaremiles (or squarekm) of land due to fishing. Of course, the length of the coastline should be calculated in reasonable scale, say in 20 mile steps. COAST = ??COAST=100????COAST?? sqr??UNIT?? ;YIELD=relative yield acquired from the land: 1.0 is normal, 0.5 is poor and 1.5 is great. Yield depends on a number of factors: crop, land quality, agricultural techniques and climate. Of these, the three first tend to stay relatively constant over a short time period, but climate may vary a lot from year to year. YIELD = ??YIELD=1????YIELD?? ;DENSITY=reference population density per squaremile or squarekm in reference situation: no wasteland, no uninhabited land, yield=1. Density depends on the subsistance type of the culture. You can also figure the effect of technology and crop cycles in here. density / sqmil density / sqkm ; Subsistence ; ------\_\_\_\_\_ Nomad 5 2 ; Seminomad 10 4 ; 20 ; Semisedentary 50 Sedentary 100 40 ; Industrial more ; more ; Here are some population densities (actual average densities, \_not\_ ; ; reference densities): 0.3 / sqmil Artic: ; Kalahari desert:1/ sqmilCanadian praries:2/ sqmilMedieval England:30/ sqmil ; ; ; Modern Estonia: 88 / sqmil Modern Hungary: 280 / sqmil ; ; Modern Bangladesh: 2400 / sqmil ; DENSITY =??DENSITY=12???DENSITY?? ;URBAN = extra people, ie. specialists, leaders and urban population, living from the surplus of ;the rural population as a percentage. This depends on the margin of living, but typically ;not directly, as leaders and other specialists will - for reasons that I won't go deeper ; to - more food (ie. resources) to sustain themselves than rural people. Of course, their work is ;valuable in increasing the extracted crop yield. Anyway, here are some figures you can use: Tech level urban population ; ; \_\_\_\_\_ ; Nomadic U S Early Farming 5% ; Standard Farming 10% ; Pre-Industrial Farming 15% ; Early Industrial 20% ; Standard Industrial ; 30% Early Technological ; . . . Standard Technological ; . . . ; ; Here are some estimated RW urban percentages (urban/total population): 14th century England: 2% urban ; 14th century Italy:10% urban (maximum for medieval cartined)17th century Japan:<20% urban (with intensive rice cultivation)</td> ; ; Modern Kenya: 30% urban Modern Argentina: 80% urban ; ; URBAN=??URBAN=10????URBAN?? % POPUL = (AREA+COAST\*10) \* (1-WILD/100) \* (1-WASTE/100) \* YIELD \* DENSITY \* (1+URBAN/100)



```
POPUL = (??AREA??+??COAST??*10) * (1-??WILD??/100) * (1-??WASTE??/100) *
??YIELD?? * ??DENSITY?? * (1+??URBAN??/100)
 POPUL = ??POPUL=(AREA+COAST*10) * (1-WILD/100) * (1-WASTE/100) * YIELD * DENSITY
* (1+URBAN/100)????POPUL??
 URBANPOPUL=??URBANPOPUL=URBAN/100*POPUL?? ??URBANPOPUL??
Number of cities
 CITIES=??CITIES=rnd(log(URBANPOPUL))?? ??CITIES??
 Biggest city population = ??Rnd(URBANPOPUL/3)??
 Smallest city population=??Rnd((URBANPOPUL/1,5-(URBANPOPUL/3))/(CITIES-1))??
Military Power
;TL= Technological Level where TL(military) and TL(militia) are got from the table
below:
    ΤL
;
                                 military militia Marine
;
                                   0
;
    Always nomadic
                                         2,0
                                                     0
                                           1,5 0,-
1,0 0,75
     Occasionally nomadic
                                   0,5
;
    Farming
                                   1,0
;
                                          0,75 1,0
    Trading
                                 1,5
 TL MILITARY=??TL MILITARY=1???TL MILITARY??
 TL_MILITIA=??TL_MILITIA=1????TL_MILITARY??
 TL_MARINE=??TL_MARINE=0,9???TL_MARINE??
;MOBILISATION=mobilisation level of the kingdom
     Kingdom attitude
;
;
     None
                0
;
     Peaceful
                      5
                    10
;
     Normal
      Aggresive 15
;
      Killing Spree 20
 MOBILISATION=??MOBILISATION=10????MOBILISATION??
;MILITARYFACTOR = the percent of military personnel of population (default =
MOBILISATION * TL(military))
;MILITIAFACTOR = the percent of possible militia in a population (default =
MOBILISATION*2 * TL(militia))
MILITARYFACTOR = ??MILITARYFACTOR=MOBILISATION*TL MILITARY??
??MILITARYFACTOR??
 MILITIAFACTOR = ??MILITIAFACTOR=MOBILISATION*2*TL_MILITIA??
                                                                ??MILITIAFACTOR??
MARINEFACTOR = ??MARINEFACTOR=MOBILISATION*TL MARINE?? ??MARINEFACTOR??
;To get the size of army simple calculate:
 MILITARY =??MILITARY=POPUL*MILITARYFACTOR/100?? ??MILITARY??
 MILITIA =??MILITIA=(POPUL-MILITARY)*MILITIAFACTOR/100?? ??MILITIA??
The military is the number of full-time soldiers available for war.
The militia is the number of part-time militia that can be raised in times of
war.
;To get the size of navy, try this:
NAVALSHIPS=(COAST/(AREA+COAST)) * MILITARY/60 * MARINEFACTOR
 NAVALSHIPS=(??COAST??/(??AREA??+??COAST??)) * ??MILITARY??/150 * ??MARINEFACTOR??
NAVALSHIPS = ??NAVALSHIPS=Rnd((COAST/(AREA+COAST)) * MILITARY/150 *
MARINEFACTOR) ?? ??NAVALSHIPS??
 HEAVYSHIPS = NAVALSHIPS / 100 * MOBILISATION
 HEAVYSHIPS =??HEAVYSHIPS=Rnd(NAVALSHIPS/100 * MOBILISATION)?? ??HEAVYSHIPS??
 SAILORS = TL_MARINE*10 * (NAVALSHIPS+2*HEAVYSHIPS) * MARINEFACTOR
 SAILORS =??SAILORS=TL_MARINE*10 * (NAVALSHIPS+2*HEAVYSHIPS) * MARINEFACTOR??
??SAILORS??
```





Production: POPUL\*2 / 10000, if TL is (occationally) nomadic ; ;GNI = { URBANPOPUL\*5+(POPUL-URBANPOPUL)\*3)/10000 otherwise ; ??GNI=(URBANPOPUL\*5+(POPUL-URBANPOPUL)\*3)/10000?? GNI=(URBANPOPUL\*5+(POPUL-URBANPOPUL)\*3)/10000= ??GNI?? Power components: ??ECONOMICPOWER=GNI/5?? ECONOMICPOWER =GNI/5 = ??ECONOMICPOWER?? ??MILITARYPOWER=((MILITARY+SAILORS)/1000) + (MILITIA/3000) + ((NAVALSHIPS + 3\*HEAVYSHIPS)/10)?? MILITARYPOWER = ((MILITARY+SAILORS)/1000) + (MILITIA/3000) + (NAVALSHIPS + 3\*HEAVYSHIPS)/10) = ??MILITARYPOWER?? ??POPULATIONPOWER=POPUL/100000?? POPULATIONPOWER = POPUL/100000 = ??POPULATIONPOWER?? Total power: ??POWER=ECONOMICPOWER + MILITARYPOWER + POPULATIONPOWER?? POWER = ECONOMICPOWER + MILITARYPOWER + POPULATIONPOWER = ??POWER?? ;Originally Compiled by Juha.Vesanto@hut.fi ;http://www.hut.fi/~vesanto/ ;This page is largely based on discussions on various mailing lists, in particular the ;world-design mailing list / Agricultural land area-thread. People who wrote to that thread ; will find whole paragraphs of their text below practically untouched, without quotation marks. ;Sorry about that, but I really saw no reason not to use perfectly good text as it was. ;Thanks to the following people for giving their input to the discussion (in no particular order): Hartley Patterson, ;Mike Harvey, Colin Watson, Thomas Hudson, Brett Evill, Chris Lea, Mike Schmitz, Ken St-Cyr, Chris Tutty, ;ANDOVER@delphi.com, Silburn Luke, Burton Choinski, Lee W. Dowd, Andrew B. Watt, Mike Maxwell A Lapalme, ;scott david orr, Rob Dean, Kevin Rose, Ian Smith, Michael Bege

;adapted and tweaked to MasterPlan standards by Ramses





# 12 Syntax

Tables and scripts shares the same syntax.

# 12.1 Control characters used in scripts and tables

Control character	Description	Example
¤	separates title from number of entries	Treasure¤б
Ş	paragraph start	1§Gold
#	reference	#Weapon#
	Case sensitive referencing	
	#NAME# returns "ANDERS FORSLUND", if the first TWO characters are upper case. Converts entire expression.	
	#Name# returns "Anders forslund", if the first character is uppercase but not the second. Converts the first character of the expression and leaves the rest as it is	
	<pre>#name# returns the actual content from the resource file , if both the first two character is lowercase. Converts nothing, returns "anders forslund"</pre>	
	Uppercase first letter of each word	
	#NameE# returns "Anders Forslund"	
	Relative referencing(like HTML) The relative referencing supports multi level referencing, i e the relative referenced resource can reference another resource. There is no theoretical limit to how many levels referencing should work but at some point your computer may run out of memory returning a "Out of stack space"-message. This will probably not happen unless you make a circular reference as a misstake.	
	<ul> <li>#\Name\Fantasy_name# - one level up and into an other folder down. With this you can easily re-use your general tables like "Color" or "Direction" et c by putting them in a General folder next to the Fantasy folder for instance.</li> </ul>	
	#\Fantasy_name# - one level up	
	#\\Fantasy_name# - two levels up. Actually you can have several "\" groups, each group will go one level up.	
	<pre>#NAME\Fantasy_name# - one level down</pre>	
	<pre>#City\Events\Religious_event"# - means two levels down. Each</pre>	
	Reference Scripts is also possible, this makes the naming of tables and script important, don't use the same name for both a table and a script unless you know what you are doing. The software gives precedence to tables, ie if both a script and a table have the same name, the reference will use the table.	
;	comment	Created by Ramses



@	invokes diceroller	@1d2+2@
^	repeats the reference with each returned entry on a new line	#WEAPON^4#
	#WEAPON^3# could return	
	Axe	
	Sword	
	Spear	
^	repeats the reference with each returned entry on the same line	#WEAPON^_4#
	#WEAPON^_3# could return	
	AxeSwordSpear	
	Notice there is no space between the items. Useful for generating names, languages etc.	
=	Sets value for lookup reference, disregards dieroll and modifier completly.	#WEAPON=3#
	#WEAPON=3# will get the entry in WEAPON as if rolled 3.	
	Setting this lookup to a higher value than entries existing in the table returns the highest entry.	
^,=	Repeat has preference,	#WEAPON <sup>3</sup> =3#
	#WEAPON^4=3# will get four(4) entries(identical) in WEAPON as if rolled 3	
I	inserts a new line	
~	dice rolls are openended, meaning that whenever a die rolls its highest number, that die is rolled again add added to the sum.	§@1D3~@
??	variable or expression. You can group your variables like "ATTRIBUTES!STR" where the part before the exclamation mark(!) is the groupname. This can be useful in table you have no way of knowing what they will return. To get the complete listing of a group use ??ATTRIBUTES??	<pre>??Strength?? ??1+2?? ??Strength=@3d6@?? #Skill^??Level??# #HitArea=??Damage??# ??ATTRIBUTES!STR=15?? &gt;&gt;&gt;TTRIBUTES!STR=15??</pre>
	Referencing a non-assigned invisible variable returns 0	??ATTRIBUTES!INT=12?? ??ATTRIBUTES!WIS=16??
	Variables can be used everywhere.	??ATTRIBUTES??
	??variable_name=1?? Assigns the variable "variable_name" the value of 1	
	Variables can be assign both numerical and alphanumerical values.	
	Reserved Variable Names is used by the software in order to extend special functions for advanced scripting	
	DUPLICATESACCEPTED, the number of duplicate entries that are required before a script/table accepts a duplicate entry generated. Default value is 2 meaning that if a script will not accept the same generated entry directly after the the first. If set to 10 the script will try to get another result 10 times before giving up and accepting the duplicate. If set to 0, no duplicate entries are accepted. Varning, do not use this unless you know what you are doing, it is possible for the script to execute an infinite loop (although you can break the loop with the "Abort Running Processes"-command, se above). It is possible to use several different values during the execution of a script.	??DUPLICATESACCEPTED=10??

## 12.2 Keywords

Mathematical Description Example expressions		Example	Returns	
+,-,*,/	Normal arithmetic	??1+1??	2	
\	Integer division	??8 \ 3??	2	
^	Exponent	??2^4??	16	
%	Mod. Returns the remainder of a division	??8 % 3??	2	
<,>	Lower than/greater than			
<=,>=	Lower than or equal /Greater than or equal Note that the equal sign must be to the right of the size sign.	IF 1<=2	TRUE	
Mathematical functions	Description	Example	Returns	
Cos,Sin,Tan	Trigonometric functions	??Cos(180)??	-1	
Sqr	Square	??Sqr(2)??	4	
Exp	antilogarithm. returns e raised to a power	??Exp(1)??	2,71828182845905	
Log	logarithm, Returns the natural logarithm of a number	??Log(1)??	0	
Constants	Description	Example	Returns	
PI	Natural Pi number	??PI??	3,14159265358979	
Now	constant(returns current system date and time))	??Now??	2002-08-13 08:37:53	
Other functions	Description	Example	Returns	
Get(string)	gets user input, string is the text that will be displayed.	??NAME=GET(Enter heroe´s name)??	Whatever the user entered	
Rnd	Round	??Rnd(1,75)??	2	
Val	converts strings to numbers	<pre>??LEVEL=VAL(GET(What level should the hero be?))??</pre>	Makes sure that the variable LEVEL will be a number just in case the user entered a nonnumeric	

# **12.3 Reserved keywords in scripts** IF,ELSE,END IF, END:, GOTO:,LABEL:





#### 12.4 Number handling

## 12.5 Hidden resoucrce files/folders

Files(tables and scripts) and folders beginning with a "~"-character is treated as hidden files and will not be displayed in the MasterPlan Explorer tree if not the "Display Hidden Files" checkbox checked.



Hidden resources will be shown with a special icon. These resources are accessible just as normal files, the only difference is that they are not displayed in the MasterPlan Explorer.



# **13 Author Area**

Working text area - For the struggling author. A place to keep notes, comments and any text. An entire scenario/adventure could be written here. Saves as RichText(\*.RTF) with picture support. Use Cut/Copy/Paste to enter pictures.





# 14 Insert Toolbox

This tool makes it even easier to create custom scripts and tables.

Insert Toolbox					
Reference					
<ul> <li>Use default case</li> <li>First character uppercas</li> <li>All characters uppercas</li> <li>Repeat 1</li> <li>Quicklist Reference</li> </ul>	Reference				
Motivation	Motivation Right click the button select a table				
Right click the button to select a table	k the button to able				
Right click the button to select a table	Right click the button to select a table				
Right click the button to select a table	Right clic select a	ck the button to table			
Right click the button to select a table	sk the button to table				
Dice	Dice				
Variables					
	•	Variable			
- Special Characters					
		Linebreak			

Simply click the Reference, Dice, Variable or Linebreak button to insert it into the script you were working on at the position the cursor were.

Not fully compatible with the Table Editor. Yet.





# **15 Dice Probablility Analysis**

Some have game mechanics that are quite difficult to calculate probablilities, therefor the probablility analysis modules.

These modules were specifically developed for Hjältessystem and Shadowrun

but can be used for other game systems as well. To get reasonably good statistically results it is neccesary to roll perhaps a million time or more and this of course takes a while. To make things simpler, is it possible to use scripts in

the Dice Probabilility Modules to enable batch operations.

## 15.1 Shadowrun



🖬 Shadowrun Dice Probability Analysis					
Die Dice Target 4 used 6 Rolled 2 Number 4					
Boll     of     1000     Image: Comparison of Display counter					
2D6 rolled 1000 times against T arget No 4 in 0 seconds         Successes       Outcome % of Total       % to get         0       225       22,500 %       100,000 %         1       497       49,700 %       77,500 %         2       278       27,800 %       27,800 %					
Run script Save result to file Copy to Clipboard Clear list					

Just enter die used(6-sided default), number of dice to roll, target number, check the OpenEnded-box and how many times we should roll it. Then click Roll, sit back and wait for the software to finish. Pressing the Run Script button opens the Open File dialog where you can choose a batch script file.

#### 15.1.1 Example of script to Dice Probability Module(Shadowrun)

[Autorun] OpenEnded=1 Rolls=10000 DieFaces=6 [Values] Dice1=3 Dice2=4 TargetNumber1=3 TargetNumber2=4 TargetNumber3=5 and so on upto any(almost) number of dice and target number possible.

# 15.2 Hjältesystem

🕅 Hjältesystem Dice Probability Analysis						
Hjälkesyst           D2         0           D4         0           D6         1           D8         0           D10         0           D12         0           D20         0	IDice Prob           1D6 rolled 100           Result         0uto           1         162:           2         160'           3         1644           4         170:           5         174:           6         0           7         259           8         281           9         284           10         279           11         287           12         0           13         48           14         48           15         52           16         45           17         58           18         0           19         7           20         7           20         7           20         7	Ability Analysis           000 times in 0 secon           come % of Total           3         16,230 %           1         16,010 %           3         17,090 %           2         17,420 %           00,000 %         02,590 %           02,810 %         02,810 %           02,810 %         02,810 %           02,810 %         02,870 %           00,000 %         00,480 %           00,480 %         00,520 %           00,580 %         00,000 %           00,580 %         00,000 %           00,000 %         00,070 %           00,070 %         00,070 %	ds % to get 100,000 % 83,770 % 67,760 % 51,360 % 34,270 % 16,850 % 14,260 % 14,260 % 14,260 % 02,950 % 01,470 % 01,020 % 00,440 % 00,370 % 0			
	15         52           16         45           17         58           18         0           19         7           20         7           21         7           22         5           23         7           24         0           25         3           26         1           27         0           28         6           29         1	00,520 % 00,450 % 00,580 % 00,070 % 00,070 % 00,070 % 00,070 % 00,050 % 00,070 % 00,070 % 00,000 % 00,000 % 00,000 % 00,000 % 00,000 %	01,990 % 01,470 % 01,020 % 00,440 % 00,370 % 00,370 % 00,230 % 00,230 % 00,180 % 00,110 % 00,110 % 00,110 % 00,070 % 00,070 % 00,070 %			
Of       10000       ✓       OpenEnded Dice         □ Display counter       Display results between       0       and       300         Run script       Save result to file       Copy to Clipboard       Clear list						

#### 15.2.1 Example of script to Dice Probability Module(Hjältesystem)

[Autorun] OpenEnded=1 Rolls=10000 [Values] V1=T2 V2=T4 V3=Тб V4=T8 V5=T10 V6=T12 V7 = T10 + T4V8=T10+T6 V9=T10+T8 V10=T10+T10 V11=T10+T12 V12=T20+T4 V13=T20+T6 V14=T20+T8 V15=T20+T10 V16=T20+T12 V17=T20+T10+T4 V18=T20+T10+T6



V19=T20+T10+T8V20=T20+T10+T10and so on