# The SMBX1...64 \*.LVL file specification

Reverse-engined by Wohlstand 02/12/2014 (100% done)

Level file is a TEXT file. All parameters are written sequentially with separating by CRLF new-line character (This file format requires CRLF line feed only and LF-only file will cause crash of SMBX).

#### Introduction

#### **Standard parameters:**

Standard size of one block 32x32 pixels
Possible on screen display height 19 blocks
Possible on screen display width 25 blocks

Height of screen 600 pixels (19 blocks without 8 pixels)

Width of screen 800 pixels (25 blocks)

Max level space size: 419998×419998 pixels (but it is allowed to come out of limits)

#### Limits of objects on one level map:

Blocks: 20000 NPCs: 5000 Background objects: 8000 Doors: 200

#### Level coordinate space

All elements of a level: blocks, Background Objects (BGOs), NPC's, warp points, liquid zones, playable characters start points, are in united space which dividing to 21 section (for file formats older 8 are 6 sections). Coordinate system has a pixels units.

X axis is directed from left to right.

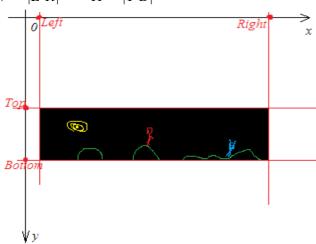
Y axis is directed from up to down.

Minimal and maximal values of X and Y are equal to "Double" C/C++ type.

Each section is declared by the position of each side of the section.

height and width can be calculated with a formula:

$$W = |L-R|$$
  $H = |T-B|$ 

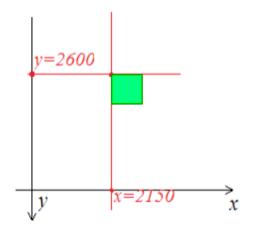


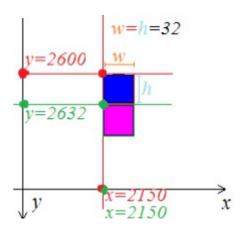
#### The coordinates of an object's placement is set concerning its upper left corner:

In this example, the mushroom's coordinates on the current section is: X=2150; Y=2600 and the block coordinates are: X=2150; Y=2632

#### Remember!

As the Y axis is turned to move an object down, it is necessary to add to the Y offset and to move up, it is necessary to subtract.





# **File Format Specification**

#### Structure

- [header]
- [sections settings]
- [player's start points]
- [blocks on level]
- "next"
- [background tiles]
- "next"
- [NPS's options]
- "next"
- [Warps/Doors options]
- "next"
- [Water/Quicksand]
- "next"
- [Layers]
- "next"
- [Events]

#### The reference designations:

- standard parameter
- Comment title
- Comment description
- loop
- variable
- Special option, used only under special conditions, differently is absent
- The option isn't known yet
- File format version limit
- Data type

#### File format version:

The version number of the file format defines data present or absent in the file.

# --File begin--

# First 3th lines (Header):

Parameter	Description	
64	(unsigned int) File format number (last in SMBX is 64)	
0	(unsigned int) number of stars on this level (>= 17)	
"Level name"	(string) Level title (>=60)	

**Section properties** 

Section properties		
(loop 21 times) (if <8, loop 6 times)		
(long) Left size (-left/+right)		
(long) Top size (-down/+up)		
(long) Bottom size (full screen is -200600 -down/+up)		
(long) Right size (full screen is -199200 +left/-right)		
(unsigned int) Music number (24 is enable custom music file)		
(long) Background color (In old versions editors)		
[0] = black, $[16291944] = $ blue, $[10520656] = $ dark blue-green		
(bool) Is Level wrap		
(bool) enable Off Screen exit		
(unsigned int) Background number		
(bool) No turn back (>=1)		
(bool) Under water (>=30)		
(string) Custom music file (>=2)		
(End loop)		

**Note:** Format 0 is an intro.dat file of SMBX 1.0

**Player start points** 

They experience the second sec		
-199996	(long) First player Position x (+left/-right) (0 – player point isn't set)	
-200600	(long) First player Position y (+up/-down) (0 – player point isn't set)	
24	(unsigned int) Width of character (0 – is is first player point isn't set)	
54	(unsigned int) Height of character (0 – is is first player point isn't set)	
-199242	(long) Second player Position x (0 – player point isn't set)	
-200068	(long) Second player Position y (0 – player point isn't set)	
24	(unsigned int) Width of character (0 – is is second player point isn't	
	set)	
60	(unsigned int) Height of character (0 – is is second player point isn't	
	set)	

#### **Blocks**

Description of the blocks placed on a map:

(Loop = how many blocks are in this level)			
-241408	(long) Block position x		
-180512	(long) Block position y		
32	(unsigned int) Height		
32	(unsigned int) Width		
63	(unsigned int) Block ID		
0	(unsigned int) Containing NPC number 0 – empty,		
	1-99 coins, or 1000+npc_id – NPC.		
	<b>Note:</b> SMBX1 and SMBX2 formats (<18) have a special values		
	of NPC-ID: 100 => 9, 101 => 1, 102 => 14, 103 => 34, 104 => 35		
	Coin number same which in newer formats.		
#FALSE#	(bool) Invisible		
#TRUE#	(bool) Slippery (>=61)		
"Default"	(string) Layer name (>=10)		
"BlockDestroy"	(string) Block destroy event name (>=14)		
"hitme"	(string) Block hit event name (>=14)		
"NoMore"	(string) "No more object in layer" event (>=14)		
(Loop end)			

*Note*: Array must be sorted by x and by y;

# Marker between Backgrounds and blocks:

"next"

**Background objects description:** 

(Loop = how many backgrounds are in this level)		
-199808	(long) Position x	
-200480	(long) Position y	
15	(unsigned int) Background-1 number	
"Default"	(string) Layer name (>=10)	
(Loop end)		

*Note:* Array must be sorted by x and by y and grouped by special priory by ID;

Marker between NPC and Backgrounds:

"next"

#### **NPC** descriptions:

(Loop = how many NPCs are in this level)    -199966	NPC descriptions:			
-200480	(Loop = how many NPCs are in this level)			
-1	-199966			
1	-200480	(long) Position y		
Included NPC: used only if the NPC is	-1			
Included NPC: used only if the NPC is   Buuble(283)/Burred(91)/Lakitu(284)/Egg(96)   CoopaTroopa algorithm: (NPC-76, 121, 122, 123, 124, 161, 176, 177) and Paragoombas: NPC-243, 244   O chase, 1 jump, 2 hover U/D, >4 idle in air   Cheep-cheep algorithm: (NPC-28, 229, 230, 232, 233, 234, 236)   O Swim, 1 jump, 2 projective, 3 swim L/R, 4 swim U/D   Firebar position (NPC 260) 0-32   Warp to section: -1-20 (Section number -1) (NPC-288, 289)   12	91	(unsigned int) NPC number		
Buuble(283)/Burred(91)/Lakitu(284)/Egg(96)   CoopaTroopa algorithm: (NPC-76, 121, 122, 123, 124, 161, 176, 177) and Paragoombas: NPC-243, 244   O chase, I jump, 2 hover L/R, 3 hover U/D, >4 idle in air   Cheep-cheep algorithm: (NPC-28, 229, 230, 232, 233, 234, 236)   O Swim, I jump, 2 projective, 3 swim L/R, 4 swim U/D   Firebar position (NPC 260) 0-32   Warp to section: -1-20 (Section number -1) (NPC-288, 289)   (int) Second special option: (Only for NPC-91 with special=288)   Section number for included magic potion: -1-20     #FALSE#	71	(int) Special option: $(>=15 \text{ for NPC76 and }>=30 \text{ for NPC28})$		
CoopaTroopa algorithm: (NPC-76, 121, 122, 123, 124, 161, 176, 177) and Paragoombas: NPC-243, 244		Included NPC: used only if the NPC is		
177) and Paragoombas: NPC-243, 244		Buuble(283)/Burred(91)/Lakitu(284)/Egg(96)		
O chase, 1 jump, 2 hover L/R, 3 hover U/D, >4 idle in air  Cheep-cheep algorithm: (NPC-28, 229, 230, 232, 233, 234, 236)  O Swim, 1 jump, 2 projective, 3 swim L/R, 4 swim U/D  Firebar position (NPC 260) 0-32  Warp to section: -1-20 (Section number -1) (NPC-288, 289)  12 (int) Second special option: (Only for NPC-91 with special=288)  Section number for included magic potion: -1-20  #FALSE# (bool) Generator enable (>=3)  3 (int) Special: Generator direction: [1] up, [2] left, [3] down, [4] right (>=3)  155 (int) Special: Generator type [1] Warp, [2] Projective (>=3)  155 (int) Special: Generator period (see*10) [1-600] (>=3)  "" (string) Message by this NPC talkative (>=5)  #FALSE# (bool) Friendly NPC (>=6)  #FALSE# (bool) Don't move NPC (>=6)  #FALSE# (bool) Legacy Boss (>=9)  "Default" (string) Layer name (>=10)  "Activate" (string) Activate event (>=10)  "Talk" (string) Talk event (>=10)  "NoMoreObj" (string) No more object in layer event (>=14)  "AttachToLayer" (string) Layer name to attach (>=63)		CoopaTroopa algorithm: (NPC-76, 121, 122, 123, 124, 161, 176,		
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Section number for included magic potion: -1-20				
#FALSE# (bool) Generator enable (>=3)  (int) Special: Generator direction: [1] up, [2] left, [3] down, [4] right (>=3)  (int) Special: Generator type [1] Warp, [2] Projective (>=3)  (int) Special: Generator type [1] Warp, [2] Projective (>=3)  (int) Special: Generator period (sec*10) [1-600] (>=3)  "" (string) Message by this NPC talkative (>=5)  #FALSE# (bool) Friendly NPC (>=6)  #FALSE# (bool) Don't move NPC (>=6)  #FALSE# (bool) Legacy Boss (>=9)  "Default" (string) Layer name (>=10)  "Activate" (string) Activate event (>=10)  "GOldCoin D" (string) Death event (>=10)  "Talk" (string) Talk event (>=10)  "NoMoreObj" (string) No more object in layer event (>=14)  "AttachToLayer" (string) Layer name to attach (>=63)				
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3       (int) Special: Generator direction: [1] up, [2] left, [3] down, [4] right (>=3)         2       (int) Special: Generator type [1] Warp, [2] Projective (>=3)         155       (unsigned int) Special: Generator period (sec*10) [1-600] (>=3)         ""       (string) Message by this NPC talkative (>=5)         #FALSE#       (bool) Friendly NPC (>=6)         #FALSE#       (bool) Don't move NPC (>=6)         #FALSE#       (bool) Legacy Boss (>=9)         "Default"       (string) Layer name (>=10)         "Activate"       (string) Activate event (>=10)         "GOldCoin D"       (string) Death event (>=10)         "Talk"       (string) Talk event (>=10)         "NoMoreObj"       (string) No more object in layer event (>=14)         "AttachToLayer"       (string) Layer name to attach (>=63)				
[3] down, [4] right (>=3)     (int) Special: Generator type [1] Warp, [2] Projective (>=3)     (unsigned int) Special: Generator period (sec*10) [1-600] (>=3)     "" (string) Message by this NPC talkative (>=5)     #FALSE# (bool) Friendly NPC (>=6)     #FALSE# (bool) Don't move NPC (>=6)     #FALSE# (bool) Legacy Boss (>=9)     "Default" (string) Layer name (>=10)     "Activate" (string) Activate event (>=10)     "GOldCoin D" (string) Death event (>=10)     "Talk" (string) Talk event (>=10)     "NoMoreObj" (string) No more object in layer event (>=14)     "AttachToLayer" (string) Layer name to attach (>=63)	#FALSE#			
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(unsigned int) Special: Generator period (sec*10) [1-600] (>=3)""(string) Message by this NPC talkative (>=5)#FALSE#(bool) Friendly NPC (>=6)#FALSE#(bool) Don't move NPC (>=6)#FALSE#(bool) Legacy Boss (>=9)"Default"(string) Layer name (>=10)"Activate"(string) Activate event (>=10)"GOldCoin D"(string) Death event (>=10)"Talk"(string) Talk event (>=10)"NoMoreObj"(string) No more object in layer event (>=14)"AttachToLayer"(string) Layer name to attach (>=63)		[3] down, [4] right (>=3)		
"""  (string) Message by this NPC talkative  (>=5)  #FALSE#  (bool) Friendly NPC  (>=6)  #FALSE#  (bool) Don't move NPC  (>=6)  #FALSE#  (bool) Legacy Boss  (>=9)  "Default"  (string) Layer name  (>=10)  "Activate"  (string) Activate event  (>=10)  "GOldCoin D"  (string) Death event  (>=10)  "Talk"  (string) Talk event  (>=10)  "NoMoreObj"  (string) No more object in layer event  (>=14)  "AttachToLayer"  (string) Layer name to attach  (>=63)		(int) Special: Generator type [1] Warp, [2] Projective (>=3)		
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	<u> </u>	- · · · · · · · · · · · · · · · · · · ·		
(Loon end)	"AttachToLayer"			
(Loop chu)				

#### **Marker between NPC and Doors:**

"next"

**Doors description:** 

(Loop = how many doors are in this level)		
-199824	(long) Entrance position x	
-200224	(long) Entrance position y	
-199824	(long) Exit position x	
-200224	(long) Exit position y	
3	(unsigned int) Entrance direction: [3] down, [1] up, [2] left, [4] right	
3	(unsigned int) Exit direction: [1] down [3] up [4] left [2] right	
1	(unsigned int) Door type: [1] pipe, [2] door, [0] instant	
"file.lvl"	(string) Warp to level (>=3)	
0	(unsigned int) Normal Entrance / To Warp [0-100] (>=3)	
#FALSE#	(bool) Level Entrance (can not enter) (>=3)	
#FALSE#	(bool) Level Exit (End of level) (>=4)	
-1	(long) Wrap to X on world map (-1 is empty) (>=4)	
-1	(long) Wrap to Y on world map (-1 is empty) (>=4)	
5	(unsigned int) Need a stars for enter (>=7)	
"Default"	(string) Layer name (>=12 (8?))	
#FALSE#	(bool) <unused>, always FALSE (&gt;=12)</unused>	
#FALSE#	(bool) No Yoshi (>=23)	
#FALSE#	(bool) Allow NPC (>=25)	
#FALSE#	(bool) Locked (>=26)	
(Loop end)		

#### Marker between Doors and water/quicksand:

"next" (>=10)

# Water/Quicksand descriptions: (>=29), else skip section

(Loop = how many water ranges are in this level)		
-159968	(long) Position X	
-160096	(long) Position Y	
160	(unsigned long) Width	
64	(unsigned long) Height	
0	(int) <unused>, always 0</unused>	
#TRUE#	(bool) Is Quicksand, else Water (>=62)	
"Default"	(string) Layer name	
(Loop end)		

#### Marker between water/quicksand and layers:

"next" (>=10)

# Layers descriptions:

(>=10), else skip section

(Loop = how many layers are in this level)	
"Default"	(string) Layer name
#FALSE#	(bool) Is Hidden layer
(Loop end)	

#### Marker between layers and events:

# **Events descriptions:**

# (>=10), else skip section

	(Loop = how many events are in this level)		
"New Event"	(string) Event name		
"All super-puper!!!)))))"	(string) Show message after start event (>=	11)	
0	(unsigned int) Play sound number (0 is don't play sound) (>=14)		
0	(unsigned int) End game type (0 – none, or 1 – Bowser Defeat)(>=18)		
↓ (loop 20 times = Sh	ow/hide/toggle layers lists)		
"hideme1"	(string) Hide layer		
"showme1"	(string) Show layer		
"Toggleme1"	· •	=14)	
1 (loop 20 times end)			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	oug: if you add 21'st layer in any list,		
	delete layers from list. Max 21 layers		
""	(string) Empty string (must by for SMBX)		
""	(string) Empty string (must by for SMBX)		
""		=14)	
↓ (loop 21 times start (for each 21 sections) (>=13)			
-1	(int) Set Music ([-1] don't change; [-2] default; of	or number of music)	
-1	(int) Set Background ([-1] don't change; [-2] default; or # of back)		
-1	(long) Set Position ([-1] don't change; [-2] default;		
	or LEFT x coordinates for section=current_loop)		
0	(long) TOP y coordinates for section=current_loop		
0	(long) BOTTOM y coordinates for section=current_loop		
0 (long) RIGHT x coordinates for section=current_loop			
↑ (Loop 21 times end	)		
"Trigger event"	(string) Trigger event	(>=26)	
1532	(unsigned int) trigger delay in deciseconds. I. e.	153,2 sec(>=26)	
#FALSE#	(bool) No Smoke	(>=27)	
#FALSE#	(bool) Hold ALT-JUMP player control	(>=28)	
#FALSE#	(bool) Hold ALT-RUN player control	(>=28)	
#FALSE#	(bool) Hold DOWN player control	(>=28)	
#FALSE#	(bool) Hold DROP player control	(>=28)	
#FALSE#	(bool) Hold JUMP player control	(>=28)	
#FALSE#	(bool) Hold LEFT player control	(>=28)	
#FALSE#	(bool) Hold RIGHT player control	(>=28)	
#FALSE#	(bool) Hold RUN player control	(>=28)	
#FALSE#	(bool) Hold START player control	(>=28)	
#FALSE#	(bool) Hold UP player control	(>=28)	
#FALSE#	(bool) Auto start	(>=32)	
"MoveMe"	(string) Layer name for movement	(>=32)	
0	(float) Layer moving speed – horizontal (-Left/+		
0	(float) Layer moving speed – vertical (+Up/-Do		
0	(float) Move screen horizontal speed (-Left/+Rig		
0	(float) Move screen vertical speed (+Up/-Down)		
0	(int) Scroll section x, (in file value is x-1)	(>=33)	
(Loop end)			

# **Attachments:**

**Initial section left-top positions** (Initial size of each section is 800x600 pixels)

(Section Center)	Section (X and Y axis ranges)
-200000	<b>01</b> (-190000 : -219999)
-180000	<b>02</b> (-170000 : -189999)
-160000	<b>03</b> (-150000 : -189999)
-140000	<b>04</b> (-130000 : -149999)
-120000	<b>05</b> (-110000 : -129999)
-100000	<b>06</b> (-90000 : -109999)
-80000	<b>07</b> (-70000 : -89999)
-60000	<b>08</b> (-50000 : -69999)
-40000	<b>09</b> (-30000 : -49999)
-20000	<b>10</b> (-10000 : -29999)
0000	11 (9999 : -9999)
20000	<b>12</b> (10000 : 29999)
40000	<b>13</b> (30000 : 49999)
-60000	<b>14</b> (50000 : 69999)
80000	<b>15</b> (70000 : 89999)
100000	<b>16</b> (90000 : 109999)
120000	<b>17</b> (100000 : 129999)
140000	<b>18</b> (130000 : 149999)
160000	<b>19</b> (150000 : 169999)
180000	<b>20</b> (170000 : 189999)
200000	<b>21</b> (190000 : 209999)

# **Background Sorting Priority table**

Value	BackGround ID list	Comment
1	76	Backgrounds
2	30, 39, 40, 41, 42, 64, 75, 77, 78	Backgrounds
3	16, 17	Castles
4	14, 15, 47	Walls
5	60, 12	
6	43, 44, 97, 11, 61, 172, 158, 159, 66	
7	165, 65, 169, 82, 166	
8	164, 26, 167, 168, 83	
9	79, 160, 101, 102	
10	186, 110, 153, 152	
11	111, 112, 113	Bones
12	58, 132, 115	
13	116, 133, 117, 118	
14	190, 13, 189	
15	52, 53, 54, 55, 56, 57, 59	Tree
16	185	
17	170, 171	

18	99	
19	22, 21	Mushroom trunk
20	67, 150	
21	81, 151, 142, 162	
22	121, 144, 122, 123, 124, 85, 125	
23	146, 126, 127, 147, 128, 93	
24	148, 103, 149	
25	119, 120, 36, 152	
26	2, 4	Small Hills
27	114	
28	3, 6, 7, 8, 9, 10	Big Hills
29	32, 31	Bush
30	27, 28	SMW Grass
31	18, 19, 20	SMB1 Grass
32	89, 90, 91	Colomn
33	134, 135, 136	Check Point
34	5, 29, 80, 33	
35	38, 62, 63, 108, 109	Palm tree
36	174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184	Fence
37	173	Big bubble
38	15, 37, 84, 86	
39	94, 95	Lamp rope
40	35, 96, 98, 34	
41	163	
42	129	
43	131	
44	130	
45	1	Little bush
46	140, 139	
47	87, 88, 92, 141, 104, 105, 107	Doors
48	100, 74, 71, 70, 72, 73	Platform path
49	48	Spider web
50	161	Cloud
51	106	Little fence 1
52	23, 24, 25	Little fence 2
53	154, 155, 156, 157	Mother Brain Wires
54	137, 138	CheckPoint gates right FG
55	143, 145	Exit gates
56	68, 69	Air-Screw
57	45, 46	Rope 1
58	187, 188	Quicksand foreground
59	50, 51	HandRail Ghost
60	49	HandRail