## How to create a multi-sample based program with FBM

With FBM, you will be able to create a multi-sample based program on PC. It's far from create a nice and complete program but let you define the multi sample key mapping and sample conversion on the PC screen. The synth job still to be done on Fusion.

You need first sample and loop (or compile & convert) the instrument in 16bits 44.1 format (mono or stereo).

For this test, we will use a multisample from Roland System 100 (directory Roland S100/Roland D Multi in the archive) found here :

http://www.musicradar.com/news/tech/sampleradar-12939-free-sample-downloads-217833/70

Download and unzip this folder.

Create Multisample	23
	8 9
Name Size Root Notes Velocity +	
Anuler	ОК

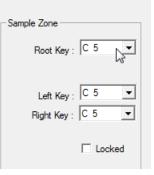
Than open FBM and go to tools / Import / Create Multisample :

To add samples, clic on the + button and select all samples from the "Roland D Multi" directory

							8
reate Multisample							
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-1 0	1 1 1	2	3 4	5		6 7	8 9
Name	Size	Root	Notes	Velocity		+1	
Roland D A1	619Kb	C 5 (72)	C 5 - C 5 (72-72)	0-127	— n -	<u> </u>	
Roland D A2	635Kb	C 5 (72)	C 5 - C 5 (72-72)	0-127		-	
Roland D A3	649Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D A4	576Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D B1	624Kb	C 5 (72)	C 5-C 5(72-72)	0-127	=		
Roland D B2	641Kb	C 5 (72)	C 5-C 5(72-72)	0-127	-		
Roland D B3	650Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D B4	571Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D C1	584Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D C2	607Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D C3	587Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D C4	630Kb	C 5 (72)	C 5 - C 5 (72-72)	0-127			
Roland D C5	609Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D C6	966Kb	C 5 (72)	C 5 · C 5 (72·72)	0-127			
Roland D D1	591Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D D2	667Kb	C 5(72)	C 5-C 5(72-72)	0-127			
Roland D D3	620Kb	C 5 (72)	C 5-C 5(72-72)	0-127			
Roland D D4	607Kb	C 5 (72)	C 5-C 5(72-72)	0-127	-	Re-	
						Annuler	
						Annuler	

All the root keys are C5 so you must set the right root key for each sample : Select a sample in the list and set the root key on the right, than click on Apply :

Name	Size	Root	Notes	Velocity	•
Roland D A1	619КЬ	C 5 (72)	C 5 - C 5 (72-72)	0-127	
Roland D A2	635Kb	C 5 (72)	C 5-C 5(72-72)	0-127	_
Roland D A3	649Kb	C 5 (72)	C 5-C 5(72-72)	0-127	
Roland D A4	576Kb	C 5 (72)	C 5-C 5(72-72)	0-127	
Roland D B1	624Kb	C 5 (72)	C 5-C 5(72-72)	0-127	=
Roland D B2	641Kb	C 5(72)	C 5-C 5(72-72)	0-127	
Roland D B3	650Kb	C 5(72)	C 5-C 5(72-72)	0-127	
Roland D B4	571Kb	C 5 (72)	C 5-C 5(72-72)	0-127	
Roland D C1	584Kb	C 5 (72)	C 5-C 5(72-72)	0-127	
Roland D C2	607Kb	C 5 (72)	C 5-C 5(72-72)	0-127	



## When the entire root key are defined,

Name	Size	Root	Notes	Velocity		+
Roland D A1	619Kb	A -1 (9)	C 5-C 5(72-72)	0-127		<u> </u>
Roland D A2	635Kb	A 2 (45)	C 5-C 5(72-72)	0-127		
Roland D A3	649Kb	A 3 (57)	C 5-C 5(72-72)	0-127		
Roland D A4	576Kb	A 4 (69)	C 5-C 5(72-72)	0-127		
Roland D B1	624Kb	B 1 (35)	C 5-C 5(72-72)	0-127	E	
Roland D B2	641Kb	B 2 (47)	C 5-C 5(72-72)	0-127		
Roland D B3	650Kb	B 3 (59)	C 5-C 5(72-72)	0-127		
Roland D B4	571Kb	B 4 (71)	C 5-C 5(72-72)	0-127		
Roland D C1	584Kb	C 1 (24)	C 5-C 5(72-72)	0-127		C
Roland D C2	607Kb	C 2 (36)	C 5-C 5(72-72)	0-127		
Roland D C3	587Kb	C 3 (48)	C 5-C 5(72-72)	0-127		
Roland D C4	630Kb	C 4 (60)	C 5-C 5(72-72)	0-127		
Roland D C5	609Kb	C 5 (72)	C 5-C 5(72-72)	0-127		
Roland D C6	966Kb	C 6 (84)	C 5-C 5(72-72)	0-127		
Roland D D1	591Kb	D 1 (26)	C 5-C 5(72-72)	0-127		
Roland D D2	667Kb	D 2 (38)	C 5-C 5(72-72)	0-127		
Roland D D3	620Kb	D 3 (50)	C 5-C 5(72-72)	0-127		
Roland D D4	607Kb	D 4 (62)	C 5-C 5(72-72)	0-127	Ŧ	1

Click on the button  $\begin{tabular}{ll} \hline \end{tabular}$  to auto map the samples :

Create Multisample		2	3 4	5		6	
						_	
		1.0.1	1	[14] = [	_		
Name	Size	Root	Notes	Velocity		+	
Roland D A1	619Kb	A -1 (9)	G -1 - E 0 (7-16)	0-127		-	
Roland D A2 Roland D A3	635Kb	A 2 (45)	A 2 - A#2 (45-46)	0-127	-		
Roland D A3 Roland D A4	649Kb	A 3 (57)	A 3 - A#3 (57-58)	0-127 0-127			
Roland D A4 Roland D B1	576Kb 624Kb	A 4 (69)	A 4 - A#4 (69-70)				
Roland D B1	624Kb 641Kb	B 1 (35) B 2 (47)	A#1 - B 1 (34-35) B 2 - B 2 (47-47)	0-127	E		
Roland D B2	650Kb	B 2 (47) B 3 (59)	B 3 - B 3 (59-59)	0-127			
Roland D B3	571Kb	B 3 (33) B 4 (71)	B 4 - B 4 (71-71)	0-127			
Roland D C1	584Kb	C 1 (24)	F 0 - C#1 (17-25)	0-127			
Roland D C2	607Kb	C 2 (36)	C 2 - C#2 (36-37)				
Roland D C3	587Kb	C 3 (48)	C 3 - C#3 (48-49)				
Roland D C4	630Kb	C 4 (60)	C 4 - C#4 (60-61)				
Roland D C5	609Kb	C 5 (72)	C 5 - F#5 (72-78)	0-127			
Roland D C6	966Kb	C 6 (84)	G 5-G 9 (79-1				
Roland D D1	591Kb	D 1 (26)	D 1 - D#1 (26-27)				
Roland D D2	667Kb	D 2 (38)	D 2 - D#2 (38-39)				
	620Kb	D 3 (50)	D 3 - D#3 (50-51)			- 1	
Roland D D3	607Kb	D 4 (62)	D 4 - D#4 (62-63)		- Q		

A save windows open and let you define the destination path AND the programs name (multisamples and samples names will be similar as program).

The .afp program fi	, the .afi multisample and the .afs samples file	s will be saved in the same
place :		

1				
	Nom	Modifié le	Туре	Taille
	📋 bank.txt	06/10/2013 17:15	Document texte	1 Ko
	🛎 SampleRadar - Roland S100 D.afi	06/10/2013 17:15	Fichier AFI	3 Ko
	🛎 SampleRadar - Roland S100 D.afp	06/10/2013 17:15	Fichier AFP	2 Ko
	SampleRadarRoland_S100_D004.afs	06/10/2013 17:15	Fichier AFS	619 Ko
	SampleRadarRoland_S100_D009.afs	06/10/2013 17:15	Fichier AFS	619 Ko
	SampleRadarRoland_S100_D024.afs	06/10/2013 17:15	Fichier AFS	584 Ko
	SampleRadarRoland_S100_D026.afs	06/10/2013 17:15	Fichier AFS	591 Ko
	SampleRadarRoland_S100_D029.afs	06/10/2013 17:15	Fichier AFS	579 Ko
	SampleRadarRoland_S100_D031.afs	06/10/2013 17:15	Fichier AFS	635 Ko
	SampleRadarRoland_S100_D035.afs	06/10/2013 17:15	Fichier AFS	624 Ko
	SampleRadarRoland_S100_D036.afs	06/10/2013 17:15	Fichier AFS	607 Ko
	SampleRadarRoland_S100_D038.afs	06/10/2013 17:15	Fichier AFS	667 Ko
	SampleRadar - Roland S100 D040.afs	06/10/2013 17:15	Fichier AFS	612 Ko

To test it on the Fusion, you will need to copy manually.

- 1 Plug the USB on the Fusion and computer
- 2 -Switch on the fusion
- 3 Go to the Fusion directory, and open the Volume / Programs directory

4 👝 FUSION HD (M:)
🌗 Clipboard
Corbeille
Image: System Volume Information
🖉 🌗 Volume
Della Audio
Mixes
Multisamples
Patterns
4 🌗 Programs
GEMS2
🐌 Hollow Sun
🐌 Hollow Sun 2
🐌 HS Freepacks

- 4 Select an existing directory (here GEMS2) and open it
- 5 Copy / paste the .afp file (here SampleRadar Roland S100 D.afp) in this directory

FUSION HD (M:)	*	Nom	Modifié le	Туре	Taille
🎍 Clipboard		SampleRadar - Roland S100 D.afp	06/10/2013 17:15	Fichier AFP	2 Ko
Corbeille		bank.txt	06/10/2013 15:39	Document texte	1 Ko
🃗 System Volume Information		MU100R-HipHpKit.afp	05/10/2013 18:06	Fichier AFP	28 Ko
퉬 Volume		🛋 drum Kit 4 t1.afp	04/09/2013 20:33	Fichier AFP	28 Ko
퉬 Audio		🛋 Jazz Kit.afp	23/01/2011 19:21	Fichier AFP	28 Ko
퉬 Mixes					
Multisamples		🔳 Drum Kit 3.afp	23/01/2011 18:49	Fichier AFP	28 Ko
Patterns		House Kit.afp	23/01/2011 17:01	Fichier AFP	28 Ko
Programs		🛒 Drum Kit 1.afp	23/01/2011 16:35	Fichier AFP	28 Ko
GEMS2		Drum Kit 2.afp	14/01/2011 00:41	Fichier AFP	28 Ko
🌗 Hollow Sun					
🐌 Hollow Sun 2					
🌗 HS Freepacks					
IIC F					

6 – Edit the bank.txt file and add the new entry :

💭 bank.txt - Bloc-notes		
<u>Fichier</u> Edition Format	<u>A</u> ffichage	2
Number of items: 7 Drum Kit 1:0 Drum Kit 2:0 Drum Kit 3:0 House Kit:0 Jazz Kit:0 drum Kit 4 t1:0 MU100R-HipHpKit SampleRadar - Rolan	d 5100 D	

 $\rightarrow$  Don't forget to add one in the numbers items (here, 7 becomes 8)



7 - Now, copy the multisample file (.afi) to the same subdirectory in the Multisamples directory (it MUST be the same name as the programs one)

FUSION HD (M:)	*	Nom	Modifié le	Туре	Taille
퉬 Clipboard		bank.txt	01/05/2013 19:00	Document texte	1 Ko
Corbeille		.DS Store	05/11/2007 12:35	Fichier DS STORE	1 KO 7 Ko
🎉 System Volume Information		GEMS2	06/10/2013 17:20	Dossier de fichiers	7 KU
📔 Volume		JMD2	01/05/2013 18:25	Dossier de fichiers	
🎉 Audio		JMD	26/01/2013 09:49	Dossier de fichiers	
July Mixes		Vstream 02	22/12/2012 15:06	Dossier de fichiers	
J Multisamples		Korg M1	17/03/2012 17:02	Dossier de fichiers	
Abstract		Hollow Sun 2	12/01/2011 21:45	Dossier de fichiers	
L CHROMATIC		Hollow Sun	10/01/2011 22:59	Dossier de fichiers	

8 - Than, copy all the samples (.afs files) to the same subdirectory in the samples directory (it MUST be the same name as the programs one)

FUSION HD (M:)	*	Nom	Modifié le	Туре	Taille
🎳 Clipboard		🎍 Abstract	10/01/2011 22:08	Dossier de fichiers	
Corbeille		\mu Battlezonekit	25/06/2011 18:09	Dossier de fichiers	
System Volume Information Volume		퉬 CHROMATIC	10/01/2011 22:08	Dossier de fichiers	
Audio			10/01/2011 22:08	Dossier de fichiers	
🖟 Mixes		GEMS2	23/01/2011 19:27	Dossier de fichiers	
퉬 Multisamples		GUITAN Date de création : 08/09/2013 21:19 Heritac Taille : 8 15 Mo		Dossier de fichiers Dossier de fichiers	
Patterns		Heritag Taille : 8,15 Mo Heritag Fichiers : 15_1_Tub_Bells.afs, 15_2_	Sharp_Bells.afs, 1	Dossier de fichiers	
🎍 Programs		\mu Heritage 3	27/01/2010 09:39	Dossier de fichiers	
Samples     Abstract		🍌 Hollow Sun	10/01/2011 22:59	Dossier de fichiers	
📕 Battlezonekit		Hollow Sun 2	12/01/2011 21:45	Dossier de fichiers	

9 - You don't need edit the bank.txt samples file.

10 – Unplug the fusion USB (on PC, uses Խ !)

11 - Verify items on the fusion (Button Global, Items entry than Mark everything and go to Process than Verify)

12 – You can try your new program !