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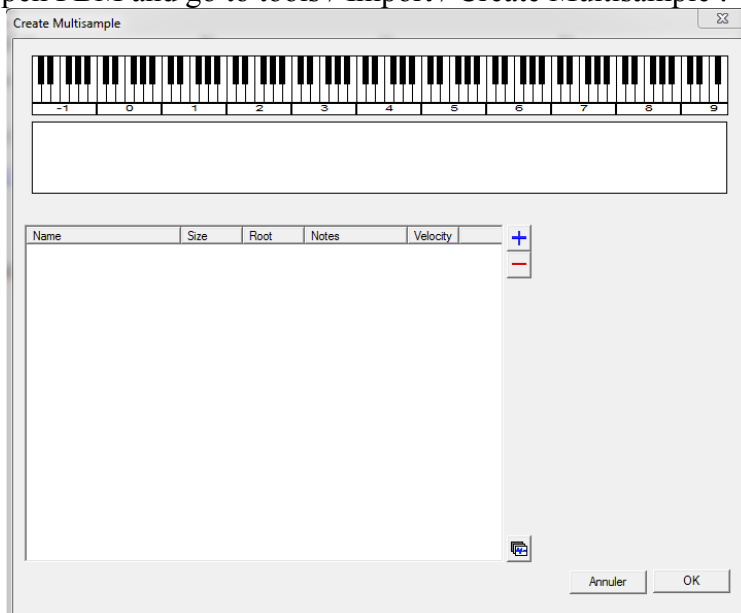
You need first sample and loop (or compile & convert) the instrument in 16bits 44.1 format (mono or stereo).

For this test, we will use a multisample from Roland System 100 (directory Roland S100/Roland D Multi in the archive) found here :
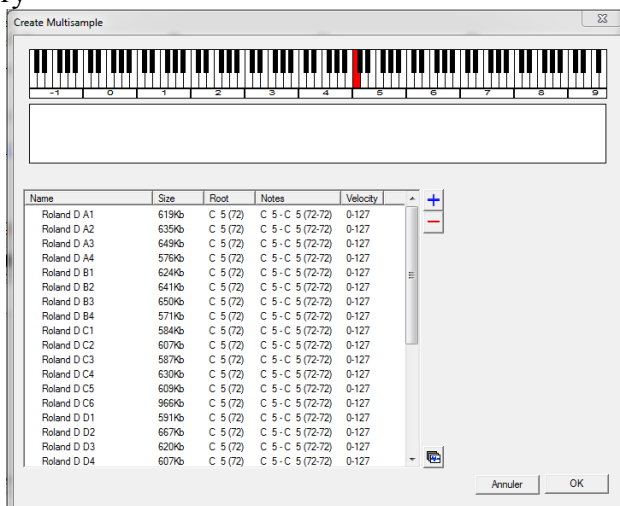http://www.musicradar.com/news/tech/sampleradar-12939-free-sample-downloads-217833/70
Download and unzip this folder.

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

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			Sample Zone		
Roland D A1	619Kb	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		—	Root Key :	C 5	
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			Left Key :	C 5	
Roland D B2	641Kb	C 5 (72)	C 5 - C 5 (72-72)	0-127			Right Key :	C 5	
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			□ Locked		
Roland D C2	607Kb	C 5 (72)	C 5 - C 5 (72-72)	0-127					

When the entire root key are defined,
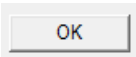
Name	Size	Root	Notes	Velocity	
Roland D A1	619Kb	A -1 (9)	C 5 - C 5 (72-72)	0-127	+
Roland D A2	635Kb	A 2 (45)	C 5 - C 5 (72-72)	0-127	—
Roland D A3	649Kb	A 3 (57)	C 5 - C 5 (72-72)	0-127	
Roland D A4	576Kb	A 4 (69)	C 5 - C 5 (72-72)	0-127	
Roland D B1	624Kb	B 1 (35)	C 5 - C 5 (72-72)	0-127	
Roland D 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	
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	

Click on the button to auto map the samples :

Create Multisample

Name	Size	Root	Notes	Velocity	
Roland D A1	619Kb	A -1 (9)	G -1 - E 0 (7-16)	0-127	+
Roland D A2	635Kb	A 2 (45)	A 2 - A#2 (45-46)	0-127	—
Roland D A3	649Kb	A 3 (57)	A 3 - A#3 (57-58)	0-127	
Roland D A4	576Kb	A 4 (69)	A 4 - A#4 (69-70)	0-127	
Roland D B1	624Kb	B 1 (35)	A#1 - B 1 (34-35)	0-127	
Roland D B2	641Kb	B 2 (47)	B 2 - B 2 (47-47)	0-127	
Roland D B3	650Kb	B 3 (59)	B 3 - B 3 (59-59)	0-127	
Roland D B4	571Kb	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)	0-127	
Roland D C3	587Kb	C 3 (48)	C 3 - C#3 (48-49)	0-127	
Roland D C4	630Kb	C 4 (60)	C 4 - C#4 (60-61)	0-127	
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...	0-127	
Roland D D1	591Kb	D 1 (26)	D 1 - D#1 (26-27)	0-127	
Roland D D2	667Kb	D 2 (38)	D 2 - D#2 (38-39)	0-127	
Roland D D3	620Kb	D 3 (50)	D 3 - D#3 (50-51)	0-127	
Roland D D4	607Kb	D 4 (62)	D 4 - D#4 (62-63)	0-127	

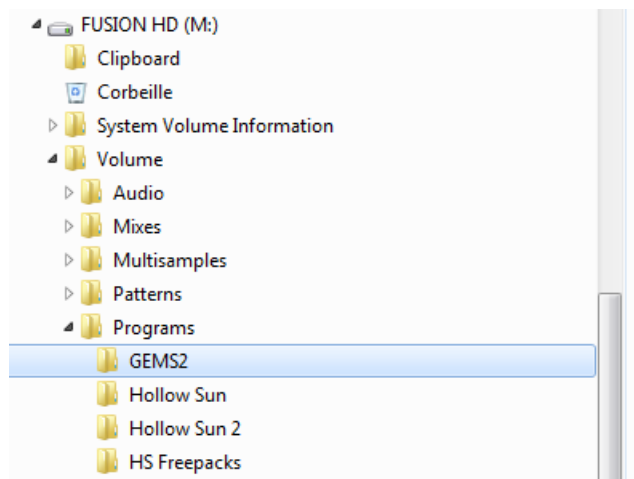To finish, just click on the **OK** button (bottom right of the windows)

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 file, the .afi multisample and the .afs samples files will be saved in the same place :

Nom	Modifié le	Type	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
SampleRadar_-_Roland_S100_D004.afs	06/10/2013 17:15	Fichier AFS	619 Ko
SampleRadar_-_Roland_S100_D009.afs	06/10/2013 17:15	Fichier AFS	619 Ko
SampleRadar_-_Roland_S100_D024.afs	06/10/2013 17:15	Fichier AFS	584 Ko
SampleRadar_-_Roland_S100_D026.afs	06/10/2013 17:15	Fichier AFS	591 Ko
SampleRadar_-_Roland_S100_D029.afs	06/10/2013 17:15	Fichier AFS	579 Ko
SampleRadar_-_Roland_S100_D031.afs	06/10/2013 17:15	Fichier AFS	635 Ko
SampleRadar_-_Roland_S100_D035.afs	06/10/2013 17:15	Fichier AFS	624 Ko
SampleRadar_-_Roland_S100_D036.afs	06/10/2013 17:15	Fichier AFS	607 Ko
SampleRadar_-_Roland_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

- FUSION HD (M:)
  - Clipboard
  - Corbeille
  - System Volume Information
  - Volume
    - Audio
    - Mixes
    - Multisamples
    - Patterns
    - Programs
      - GEMS2
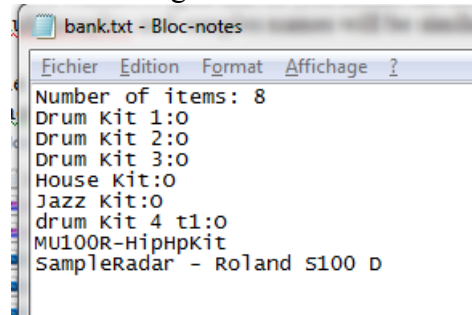   - Hollow Sun
      - Hollow Sun 2
      - HS Freepacks

    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
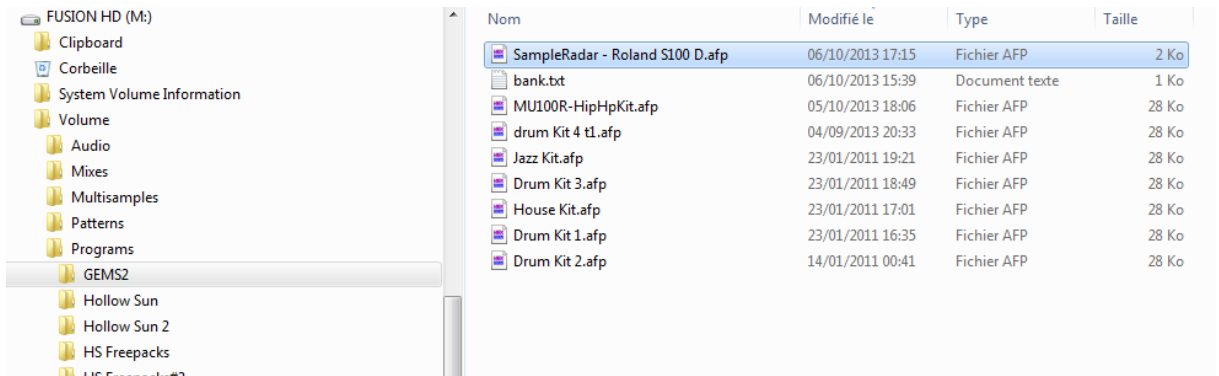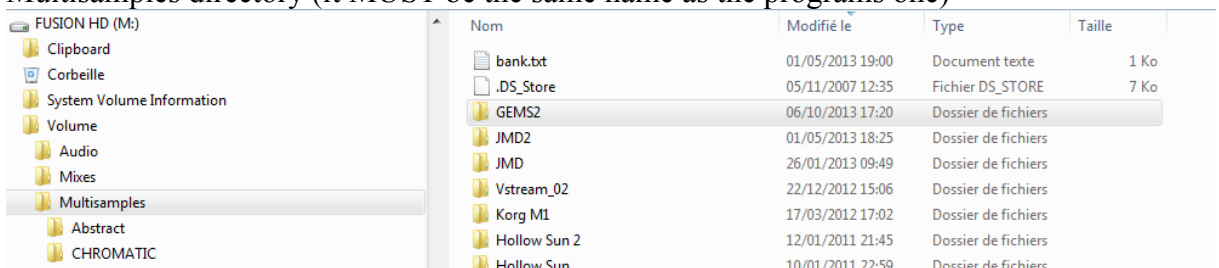
6 – Edit the bank.txt file and add the new entry :
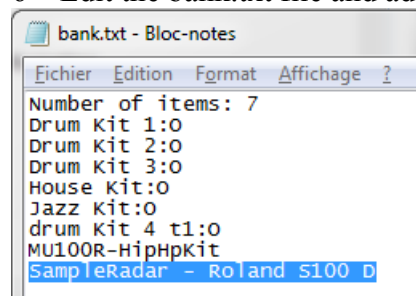
→ Don't forget to add one in the numbers items (here, 7 becomes 8)

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)

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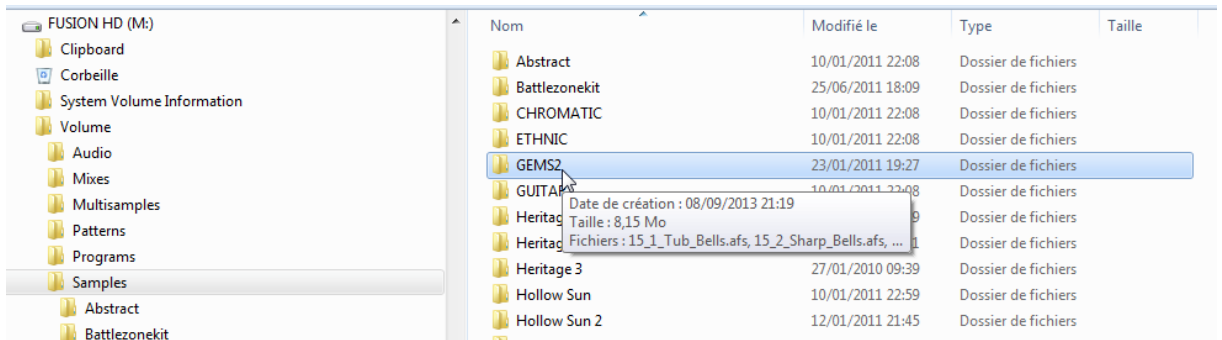
9 – You don't need edit the bank.txt samples file.

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

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 !