

# HOW TO CREATE A PATTERN FILE MERGING SEVERAL OF YOUR OWN SAMPLE-SETS

Imagine you want to create some new organs using 2 or more sample-sets

For example you want to use some pipes of ST AUGUSTINE NEUTRAL BAY with some pipes of MOSTOLES and others from CAEN sample set.

For this purpose you need a pattern file merging the 3 sample-sets.

Up to 8 or 9 sample sets may be merged, with a maximum of 48 ranks.

## ***Run a text editor like NOTEPAD.***

Create a new text document. Give it, now or later a name such as Augustine\_Mostoles\_Caen.pat (or Augustine\_Mostoles\_Caen.text). If you choose **txt** as the file extension, you will have to rename it later to **pat**.

## ***Start writing***

Create a section [required] for each sample-set.

The infos you need for that are in the files :

- 1) PackageID000720.InstallationPackageDefinition\_Hauptwerk\_xml
- 2) PackageID000778.InstallationPackageDefinition\_Hauptwerk\_xml
- 3) packageid000818.InstallationPackageDefinition\_Hauptwerk\_xml of the folder 000818.

The order of the sections is not important, but each section must have a different number.

You can also copy and paste the lines from existing patterns.

Your pattern file can begin like this :

```
[required01]
PackageID=720
Name=St. Augustine's, Neutral Bay
ShortName=St Augustine's
SupplierID=000034
SupplierName=Nicholas Appleton
MinimumVersion=1.00
```

```
[required02]
PackageID=000818
Name= Caen Demo
ShortName= CaenDemo
SupplierID= 000005
SupplierName= Jiri Zurek - Sonus Paradisi - Hauptwerk.cz
MinimumVersion=2.0
```

**[required03]**  
**PackageID=000778**  
**Name=Ste-Mostoles**  
**ShortName=Most**  
**SupplierID=000025**  
**SupplierName=Sygsoft**  
**MinimumVersion=1.0**

You can add as many comments you want, before or after this text.  
Notice that a line of comment starts with « ; »

**; end of the required section**

### ***Now you must add a section [rank] for each rank you want to use.***

The ranks can be written in any order. You can write the ranks of Caen first, then Augustine, then Mostoles, or write first the pedals stops, the Great ....

I have chosen to write the sections sorted by manuals.

You can copy and paste the rank sections from other Pat files, but take care, you will have to change some rank number, because you must not have twice the same number.

Let us start with the pedal board.

; Stops from Caen  
; They are in the set 000818 and have separate release folders.  
; Color =0 is used to remember that the rank is a pedal rank.  
; but with Myco, even a 32 notes pedal stop can be used as a 61 notes manual stop.

**; Pedal**  
**; Stops from Caen are in the set 000818 and have separate release folders.**

**[rank01]**  
**set=000818**  
**folder=pipe/ped/Bombarde16**  
**name=Bombarde 16**  
**Color=0**  
**lastsample=65**  
**incsample=1**  
**releaseFolder=pipe/ped/Bombarde16/rel99999**

**[rank02]**  
**set=000818**  
**folder=pipe/ped/Contrebasse16**  
**name=Contrebasse 16**  
**Color=0**  
**lastsample=65**  
**incsample=1**  
**releaseFolder=pipe/ped/Contrebasse16/rel99999**

**[rank03]**  
**set=000818**  
**folder=pipe/ped/Grosseflute8**  
**name=Grosse flute 8**  
**Color=0**  
**lastsample=65**  
**incsample=1**  
**releaseFolder=pipe/ped/Grosseflute8/rel99999**

**; From St Augustine I want only the cello 8'. The set is 720, no releaseFolder**  
**; incsample =1, so can be omitted.**

**[rank04]**  
**set=000720**  
**folder=pedal-violoncello8ft**  
**name=Violoncello 8**  
**color=0**  
**lastsample=65**

**; From Mostoles, I keep only the Quintaton**  
**; set is 778 and we have releaseFolder**  
**; writing 778 or 000778 is the same thing**

**[rank05]**  
**set=000778**  
**name=Quintaton 4**  
**Folder=20-Quintaton4**  
**color=0**  
**firstSample=36**  
**lastSample=65**  
**releasefolder=20-Quintaton4-port**

**REMARK**

In Mostoles the release tails are not in a sub-folder but in a folder at the same level than the pipes folder. So we have not **releasefolder=20-Quintaton4/20-Quintaton4-port** but we have to write : **releasefolder=20-Quintaton4-port**

### ***Do the same for the manuals***

**; As I do not mind if the ranks are coming from Great, Swell or Positive,**  
**; I decide that the color will be 1 for any manual,**  
**; If you prefer you can use color 1 for Caen, color 2 for Mostoles ...**  
**; I want the ranks to be sorted by footage 16', 8', 4' ...**  
**; For Caen and Mostoles : last sample=91 ( highest notes are 091-g.wav)**  
**; For Augustine : lastsample=96**

**[rank06]**  
**set=000818**  
**folder=pipe/go/Bombarde16**  
**name=Bombarde 16**

**Color=1**  
**lastsample=91**  
**releaseFolder=pipe/go/Bombarde16/rel99999**

**[rank07]**  
**set=000818**  
**folder=pipe/go/Bourdon8**  
**name=Bourdon 8**  
**Color=1**  
**lastsample=91**  
**releaseFolder=pipe/go/Bourdon8/rel99999**

**[rank08]**  
**set=000818**  
**folder=pipe/go/FluteHarmonique8**  
**name=Flute Harm 8**  
**Color=1**  
**lastsample=91**  
**releaseFolder=pipe/go/FluteHarmonique8/rel99999**

**[rank09]**  
**set=000818**  
**folder=pipe/go/Gambe8**  
**name=Gambe 8**  
**Color=1**  
**lastsample=91**  
**releaseFolder=pipe/go/Gambe8/rel99999**

**[rank10]**  
**set=720**  
**folder=swell-lieblichgedeckt8ft**  
**name=Lieblich Gedeckt 8**  
**Color=1**  
**lastsample=96**  
**volume36=6**  
**volume96=6**

**[rank11]**  
**set=000818**  
**folder=pipe/go/Montre8**  
**name=Montre 8**  
**Color=1**  
**lastsample=91**  
**releaseFolder=pipe/go/Montre8/rel99999**

**[rank12]**  
**set=720**  
**folder=swell-closedhorn8ft**  
**name=Closed Horn 8**  
**Color=2**  
**lastsample=96**  
**volume36=6**

**volume96=6**

**[rank13]  
set=720  
folder=great-claribel flute8ft  
name=Claribel flute 8  
color=1  
lastsample=96**

**[rank14]  
set=720  
folder=great-dulciana8ft  
name=Dulciana 8  
color=1  
lastsample=96**

**[rank15]  
set=000778  
name=Voz Celeste 8  
Folder=23-VozCeleste8  
color=1  
firstSample=36  
lastSample=91  
releasefolder=23-VozCeleste8-port**

**[rank16]  
set=000818  
folder=pipe/go/Trompette8  
name=Trompette8  
Color=1  
lastsample=91  
releaseFolder=pipe/go/Trompette8/rel99999**

**[rank17]  
set=000778  
name=Trompeta 8  
Folder=07-trompeta8  
color=1  
firstSample=36  
lastSample=91  
releasefolder=07-Trompeta8-port**

**[rank18]  
set=000778  
name=Voz Humana 8  
Folder=16-VozHumana8  
color=1  
firstSample=36  
lastSample=91  
releasefolder=16-VozHumana8-port**

**[rank19]**

set=000818  
folder=pipe/go/Prestant4  
name=Prestant4  
Color=1  
lastsample=91  
releaseFolder=pipe/go/Prestant4/rel99999

### ***Once the pattern file is done...***

Save it for instance with the name *August-Caen-Mosto.pat*

The name is what you want but the extension must be ,pat

The file must be in the directory ...:Myco2012/pat

#### **Run Myco**

**Open the pat file** *August-Caen-Mosto.pat*

**Design an organ** with as many stops as possible

**Name it** *August-Caen-Mosto*, you can keep ID=890000

**Compute and save the ODF,**

the file name will be *August-Caen-Mosto-(890000).CustomOrgan\_Hauptwerk\_xml*

**Run Hauptwerk-4, but do not close Myco**

**Load the custom organ** *August-Caen-Mosto-(890000)*

**Play the organ**

### ***If you notice some stops are too loud or not enough loud***

**Change** (in Myco) **the parameters** volume36 and volume96 of the bad stops.

Adding +6 to both parameters makes the sound twice louder, while -6 makes it twice softer.

**Re-compute the ODF, save it, reload the organ** with Hauptwerk and **play it again.**

Repeat until the stop amplitude level is correct.

Once you have found the best values for volume36 and volume96, **open your pattern file** with a text editor and change these parameters.

For example, if **Claribel flute 8** is too loud, change the volume of this rank.

You may see the rank has no volume36 or volume96 controls. This happens when volume is 0.

Zero is the default value and volume may be omitted when equal to zero.

In this case, just add the two lines, with the wanted values. For example :

```
[rank13]
set=720
folder=great-claribel flute8ft
name=Claribel flute 8
color=1
lastsample=96
volume36=-3
volume96=-3
```

### **Save the pattern file and close it.**

The next time you will design an organ using *August-Caen-Mosto.pat*, the volume of the stops will be correct.

### ***If you notice that one or several stops are not tuned like the others***

You can mix several samples-sets, but it is possible that they are not tuned at the same pitch.

The result will be ugly,

To avoid this situation, you can use the parameters `pitch36` and `pitch96`,

When pitch is 0, these lines are omitted in the pattern file, but you can add this control.

For example, imagine that Mostoles is tuned 440 Hz and is merged with organs tuned 444 Hz

### **Do like for volume :**

In Myco, try to change the pitch of one Mostoles stop, until the tuning of this stop matches with the stops tuned at 444 Hz. May be you will have to raise the pitch of 2 or 3 cents.

Once you have found the right value (for example +4), **edit the pattern file**, adding

`pitch36=4` and `pitch96=4` to each stops of Mostoles.

Example for one stop :

```
[rank05]
set=000778
name=Quintaton 4
Folder=20-Quintaton4
color=0
firstSample=36
lastSample=65
releasefolder=20-Quintaton4-port
pitch36=4
pitch96=4
```

The next time you will design an organ using *August-Caen-Mosto.pat*, the stops will be tuned at the same pitch.

### ***Remarks about volume and pitch***

`Volume36` and `volume96` should have the same values, unless you want hi notes to be more or less loud than the bass notes.

`Pitch36` and `pitch96` should have the same values, unless you want hi notes to be tuned more or less high than the bass notes.