





Data Structures

Level 1

Binary Data Structure

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ProgrammingAdvices.com



You can store data in a number using binary.

What does this number mean?

79

Number 79 Means:

Permission	Has Permission?	Binary Value
Show Client List		1
Add New Client		2
Delete Client		4
Update Client		8
Find Client		16
Transactions		32
Manage Users		64
Show Login Register		128

= 79

What is Time & Space Function of it? O(?)

Permission	Has Permission?	Binary Value
Show Client List		1
Add New Client		2
Delete Client		4
Update Client		8
Find Client		16
Transactions		32
Manage Users		64
Show Login Register		128

If
(PermissonToCheck & UserPermissions =
PermissionToCheck)

yes

Else

No

O(1)

Another Practical Example 😊



Korg Kronos

SetList1	SetList2	SetList3	Korg Kronos								X		
Bass & Arabic String Ens	Stage Arabic Strings	Mr Oboe RMT	Solo1	Bass & Live Strings Ens.	Kamanja Z1	Trombone -Y Growl STR	Accordion Master 1	Bass & Arabic St Soft AT	Kelfar Piano + SoftPad 2	Accordion Musete 9	Turkish Ensemble String		
Detuned PMW Oct +	Square	Accordion Master 2	Bass & Trinity Saz	Gypsy Guitar Stum LR	Solo 7 Guitar/Bozuk	Bass & E.Guitar	Bass & Takseem Guitar	Full Brass Section	Bass & Sweet Keman	Bass & Keman Saw	Bass & Kelfar Violin		
Bass & Taqsim Kamanja	Trumpet Section	Clarinet Vel. Trill	Bass Nay V3	Nay Small	Sax Z1 -Y Growl	Bass Oriental Saz JS -Y	Bass & Alto Sax JS -Y	Bass & Duduk JY + Vib.	Bass & Blaban JY + Vib.	Solo 1 Sync	Solo 2 Flanger		
Tenor Sax T3	Lead	Bass Kanoun 1 Vel. Tr	Bass Oud Vel. Tr	Phaser Bozuk C2 -C3 Rib	Bass & E.Saz	Inter. Organ	Old World Choir/Strings	Solo 3 Distortion	Solo 4 RD	Solo 5 Phaser	Solo 6 Gt. Phaser		

Octave

Oct - Off Oct +

Transpose

b - 0 + #

P1	P2	P3	P4	Pa2X Styles								P1	P2	P3	P4	Pa2X Sounds							
زي الهوى	جانا الهوى	حب ايه	هستنواك	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50		
انا بعششك	حبيبي انت	على بابي وافق	فهررين																				
العزاب	بنوتس بيك	انت عمري	في يوم وللة																				
فارأة الفنجان	اصعب فراق	يتعقبني على	تركب حزبين																				

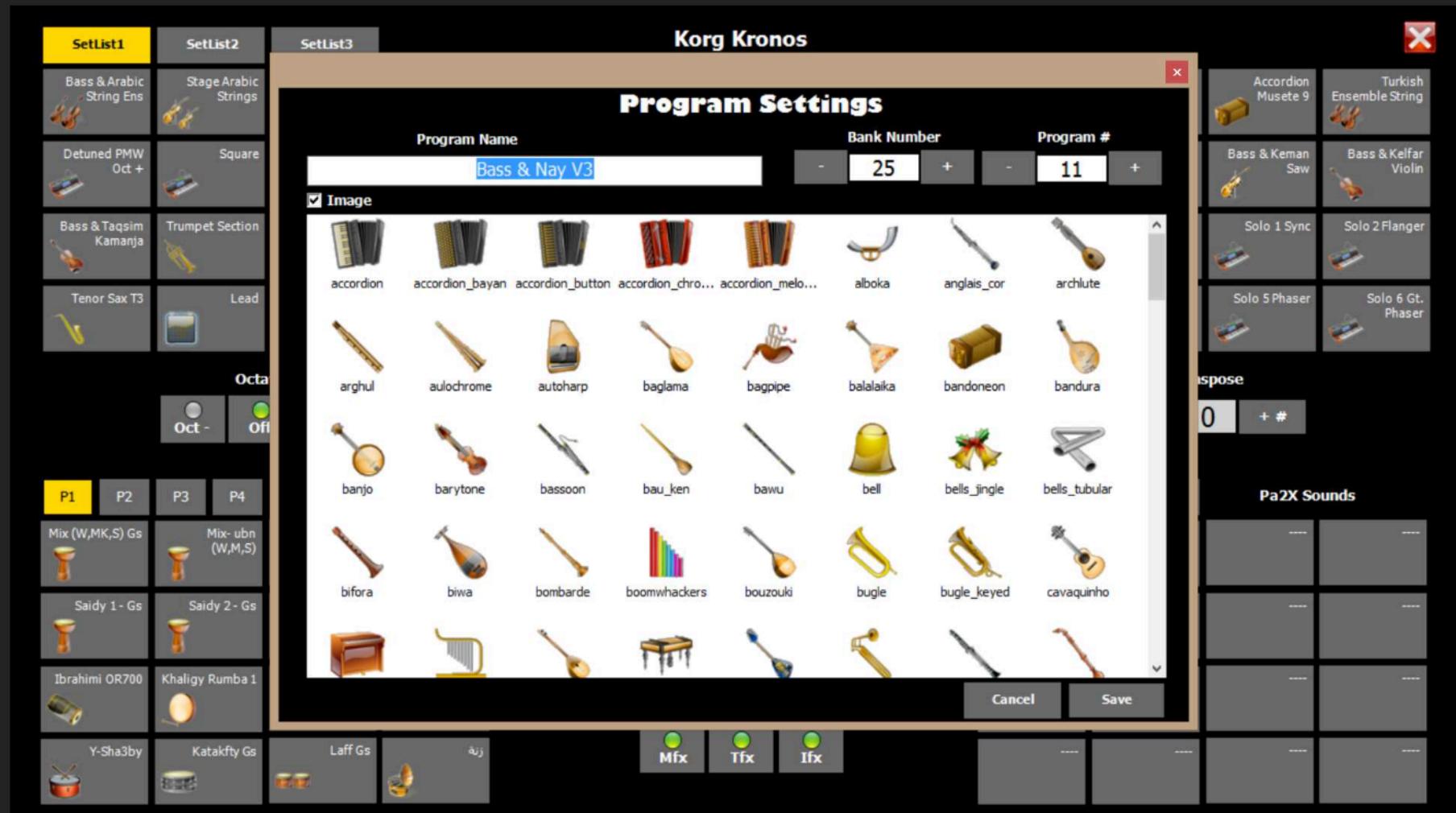
Oriental Scale

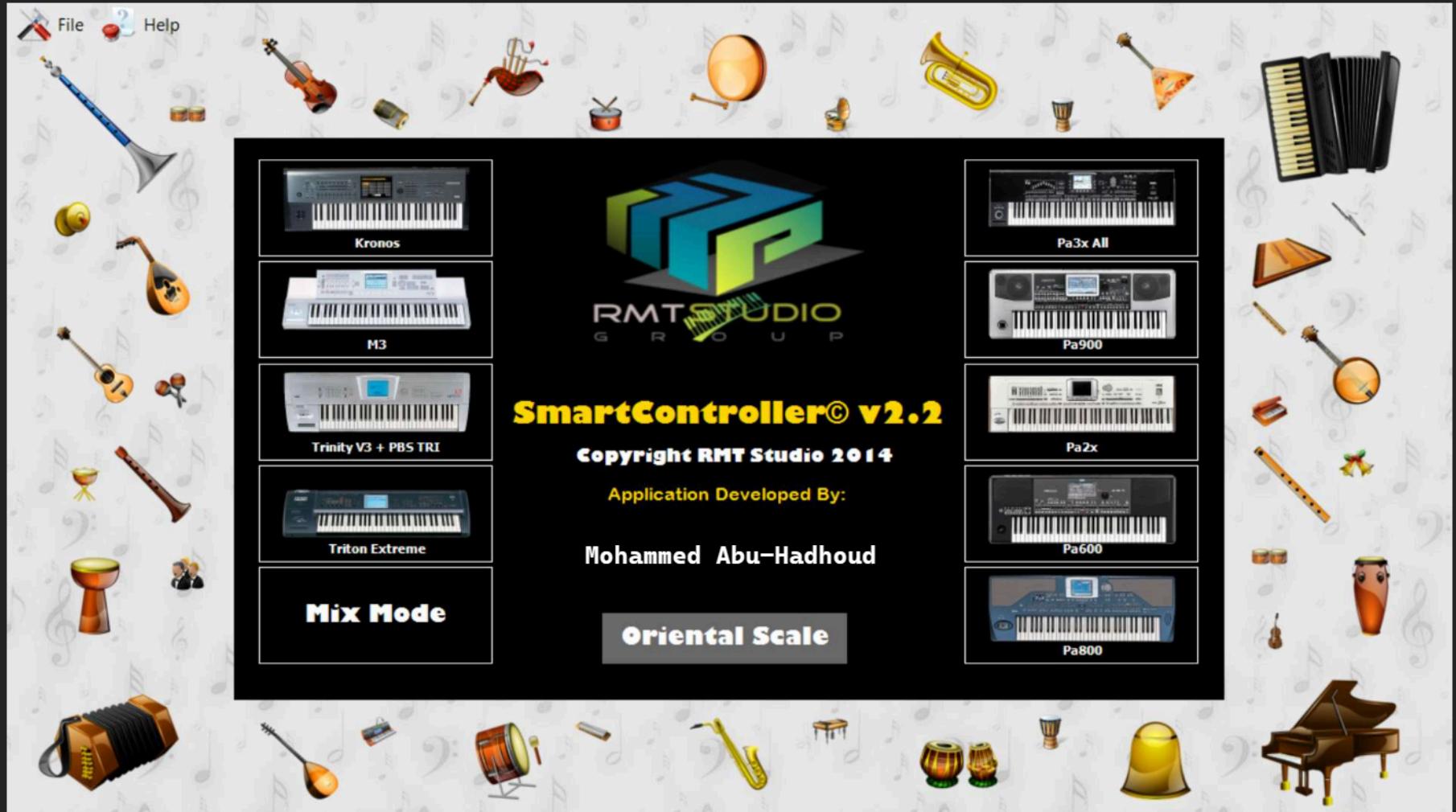
-50 -50 -50 -50 -50

Reset 1 2 3 4 5

Globale Effects

Mfx Tfx Ifx





DKHSF-PYHQ8-58A8P-GRHCB-BV2ZS