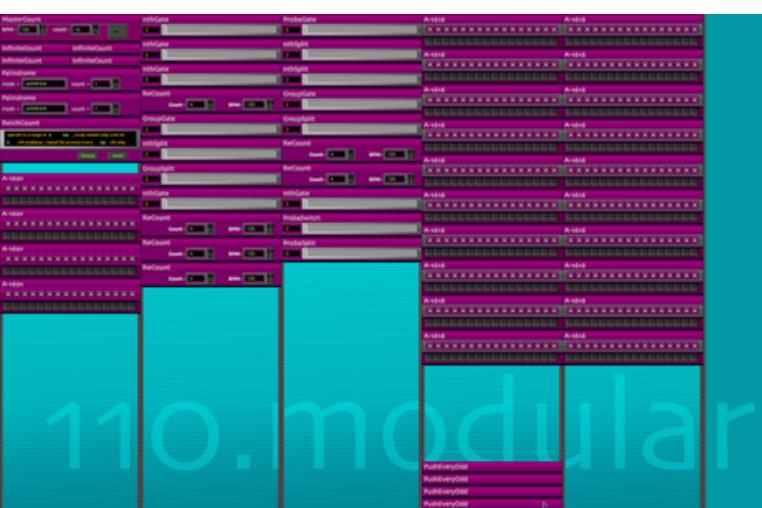


Why Modular is Superior



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me and max

2001

800+ Pluggo Plug-ins

2000 Abstractions

VST Hosts

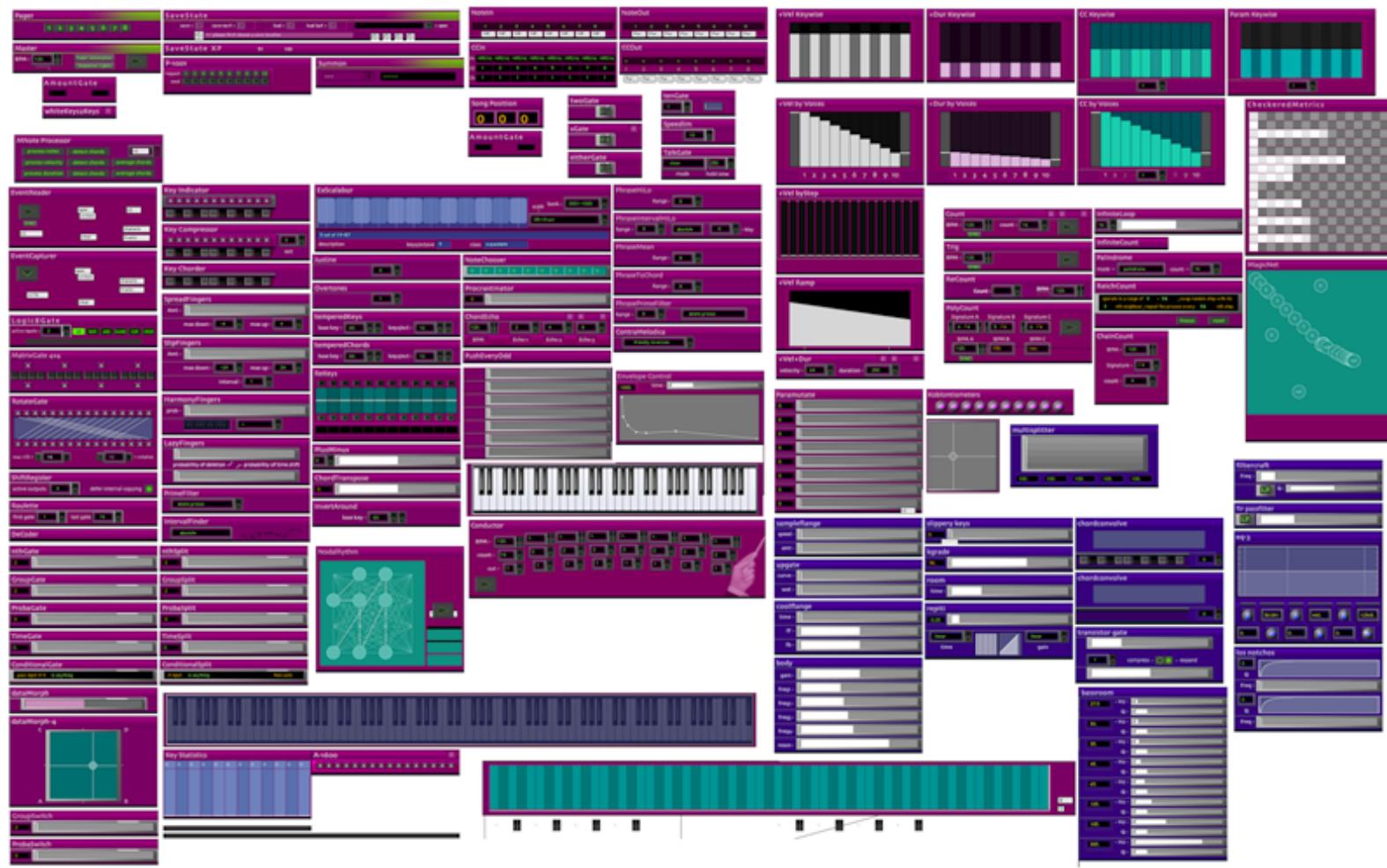
Sequencer & Synthesis Patches

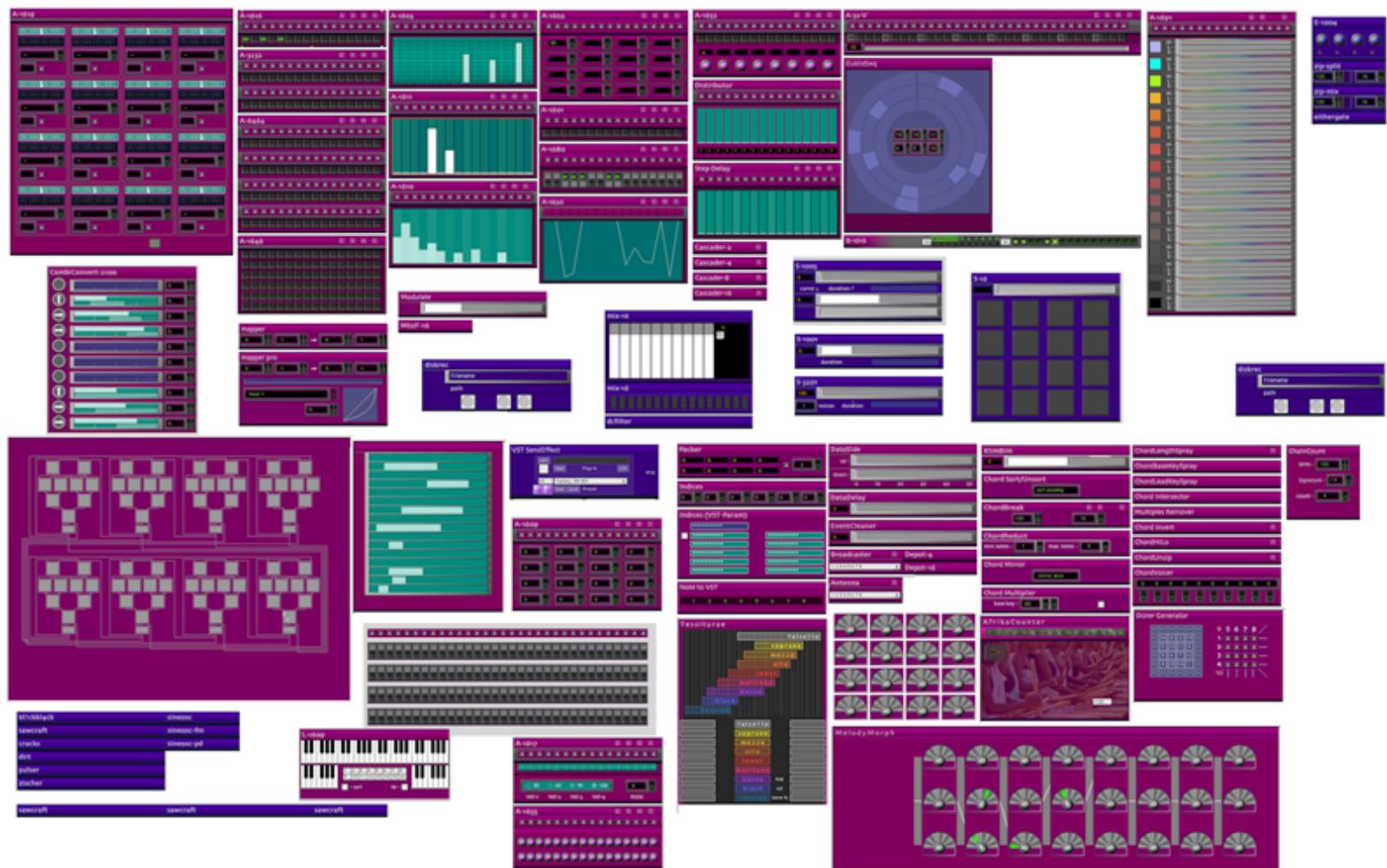
Dynamic Effects

2006

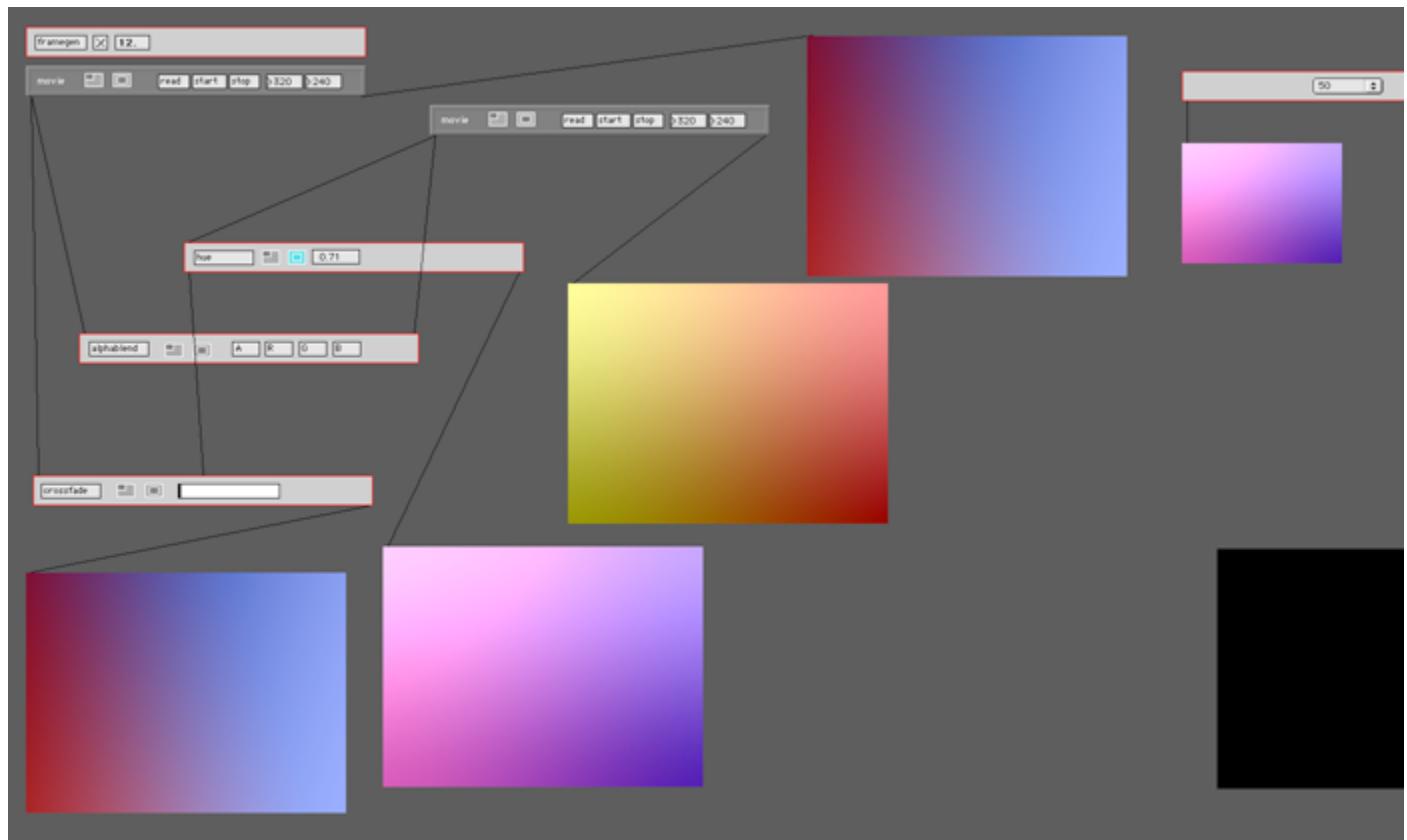
Idea: A multipurpose Sequencer

- completely modular
- 2 Versions: Patchers and Bpatchers

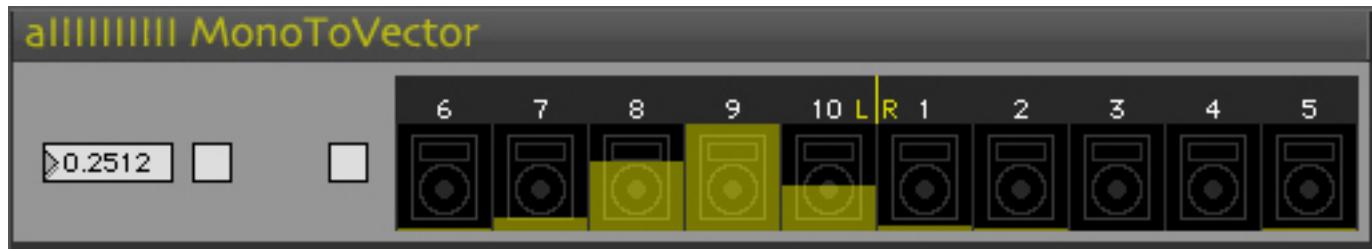




Video



VPAB



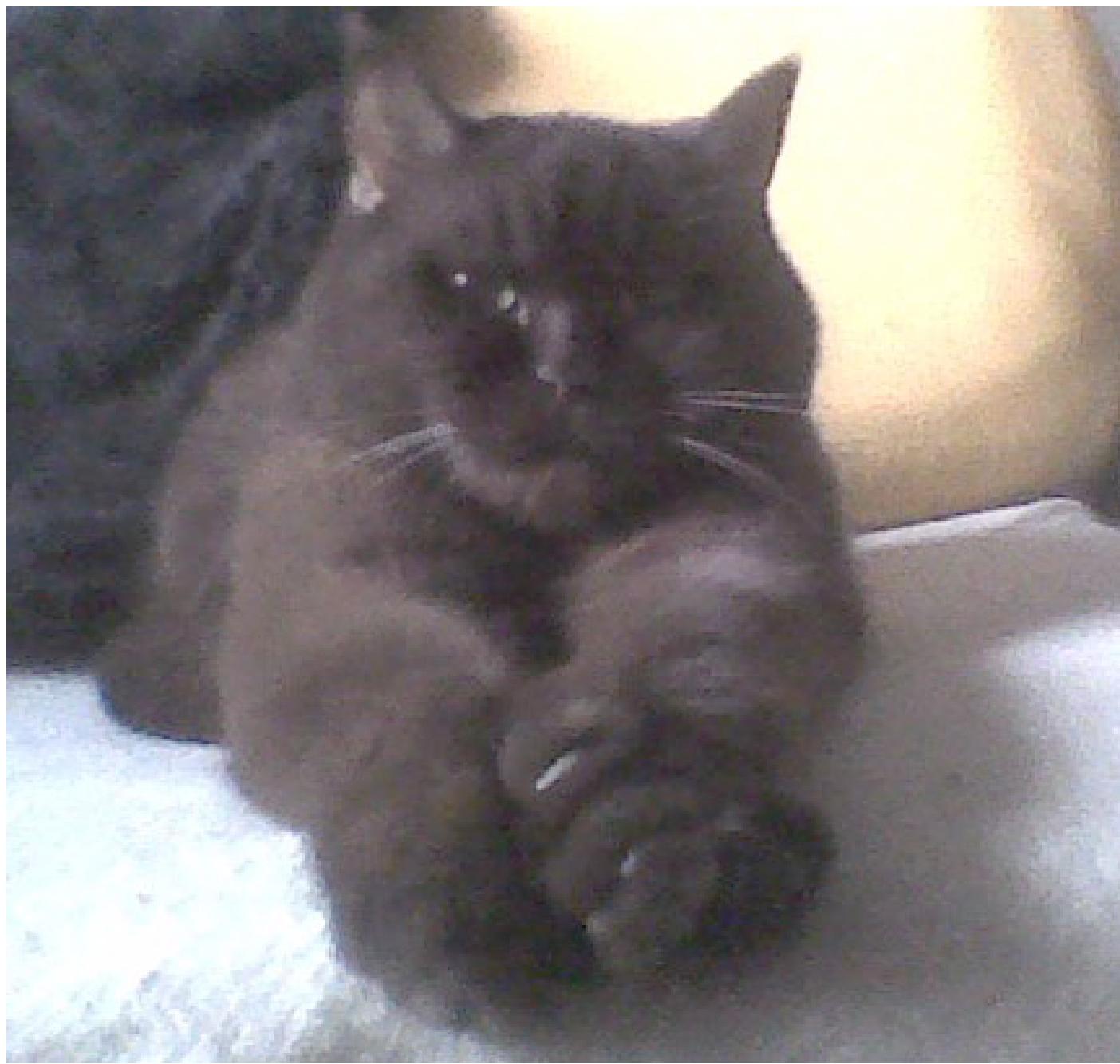
dedicated VST hosts

myPPG

	MuliPlayer	Library Editor	Patch Editor	Bank Editor	CombiControl		Inputs	Outputs
Main								
Env1 Attack	12	Env2 Attack	16	Env3 Attack	9	Total Time	79	
Env1 Decay	13	Env2 Decay	17	Env3 Decay	10	Debounce	37	
Env1 Sustain	14	Env2 Sustain	18	Env3 Att	11	PI	1	
Env1 Release	15	Env2 Release	19	Env3-OSC	40	Version	2	
Env1~VCF	24	Env2~VCA	25	Env3~Sub	41			
Env1~Wavet	26							
Main								
VCF Cutoff	20	Volume	4	Wavetable	30	LFO Rate	8	
VCF Emphasis	21	Basic	5	Waved OSC	22	LFO Shape	7	
		True PPG	28	Sub-Wavet	32	LFO Delay	6	
			???	Waves Sub	28	LFO Sync	27	
				Upperwaved	31			
Main								
Bend~IPitch	62	Mod~OSC	38	Key~Wavet	50	Touch~Wavet	58	
Bend~IFilter	63	Mod~Sub	39	Key~Filter	51	Touch~Filter	59	
Bend~Wavet	64	Mod~Wavet	55	Key~Loudness	52	Touch~Loudness	60	
Bend Interval	65	Mod~Filter	56	Vel~Filter	53	Touch~Midi	61	
		Mod~Loudness	57	Vel~Loudness	54			
Main								
Bend	75	Modwheel	8	Panning	74	Sustain Pedal	77	



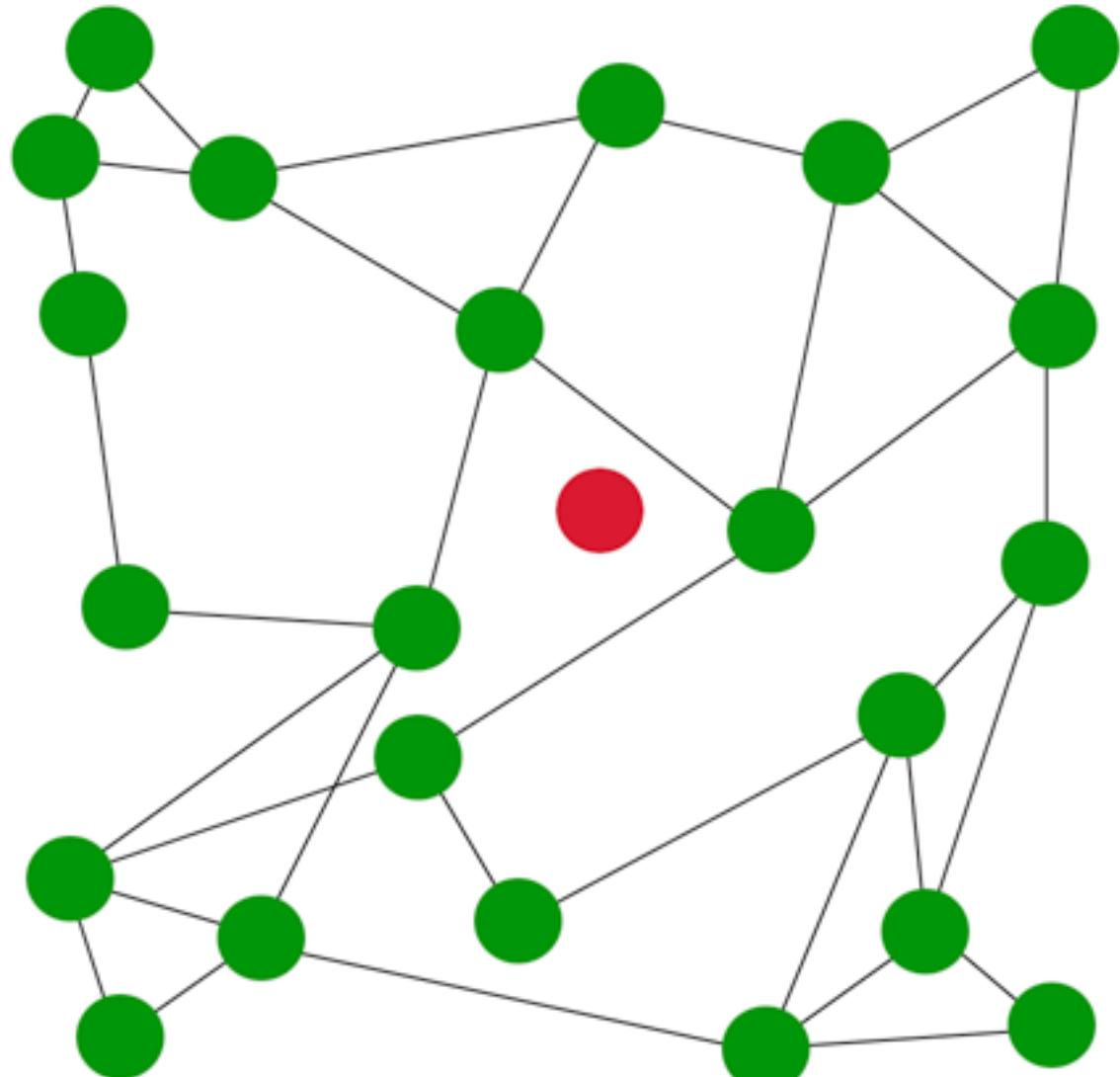
print



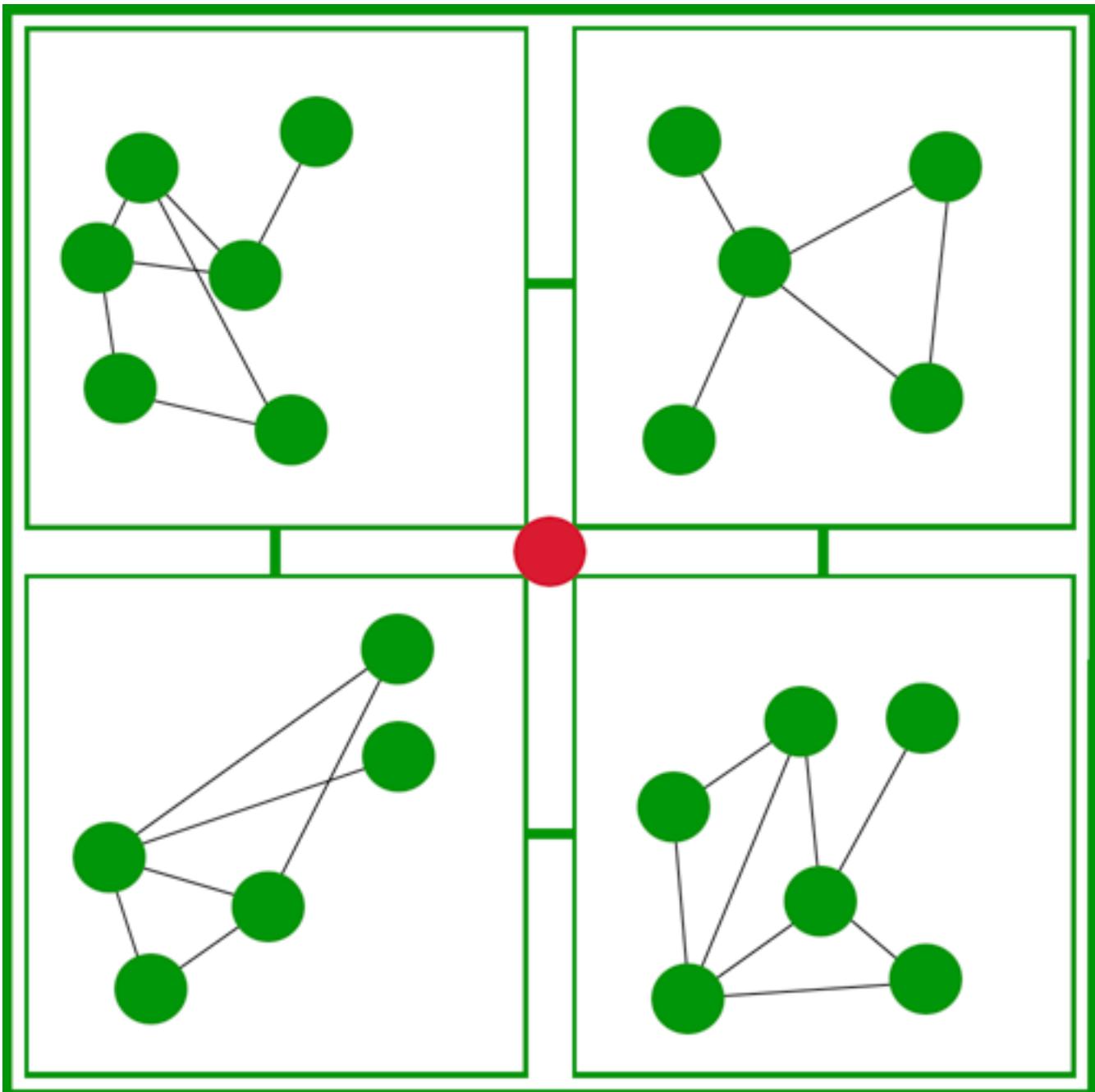
What Is Modular?

- dividing up a whole into parts
- at development
- at use
- at development AND at use

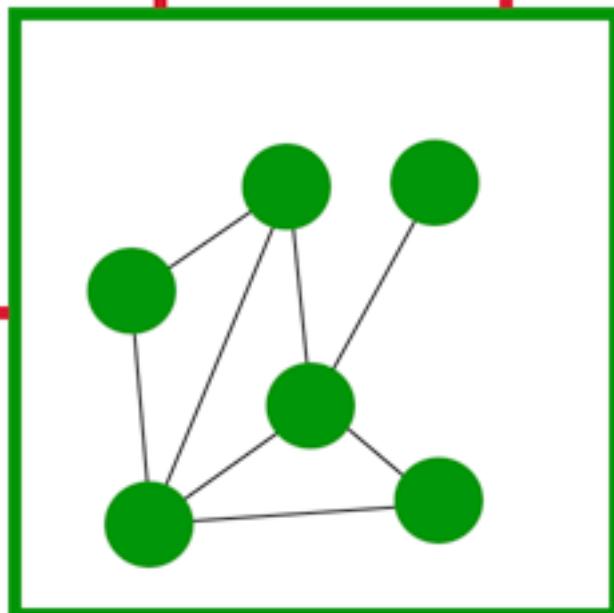
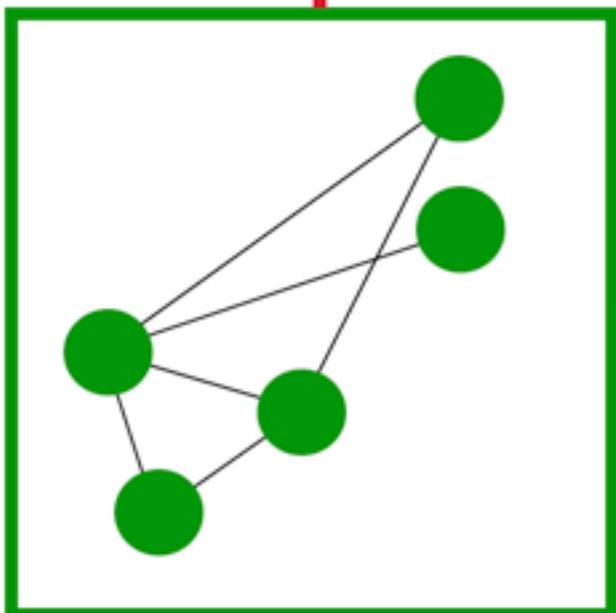
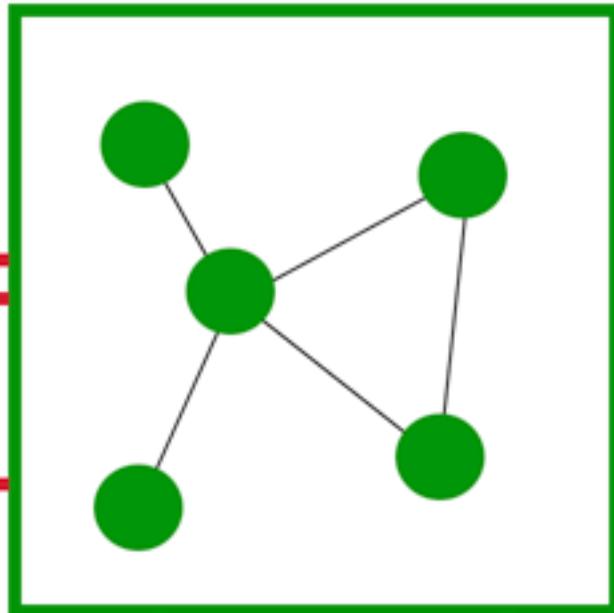
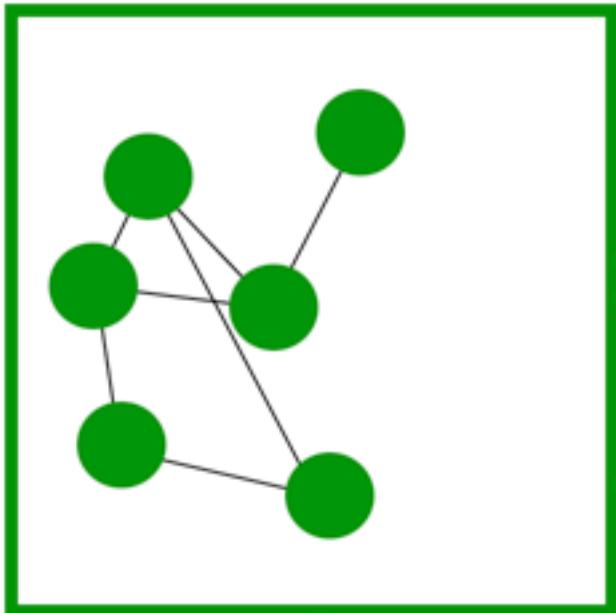
Monolithic Structure



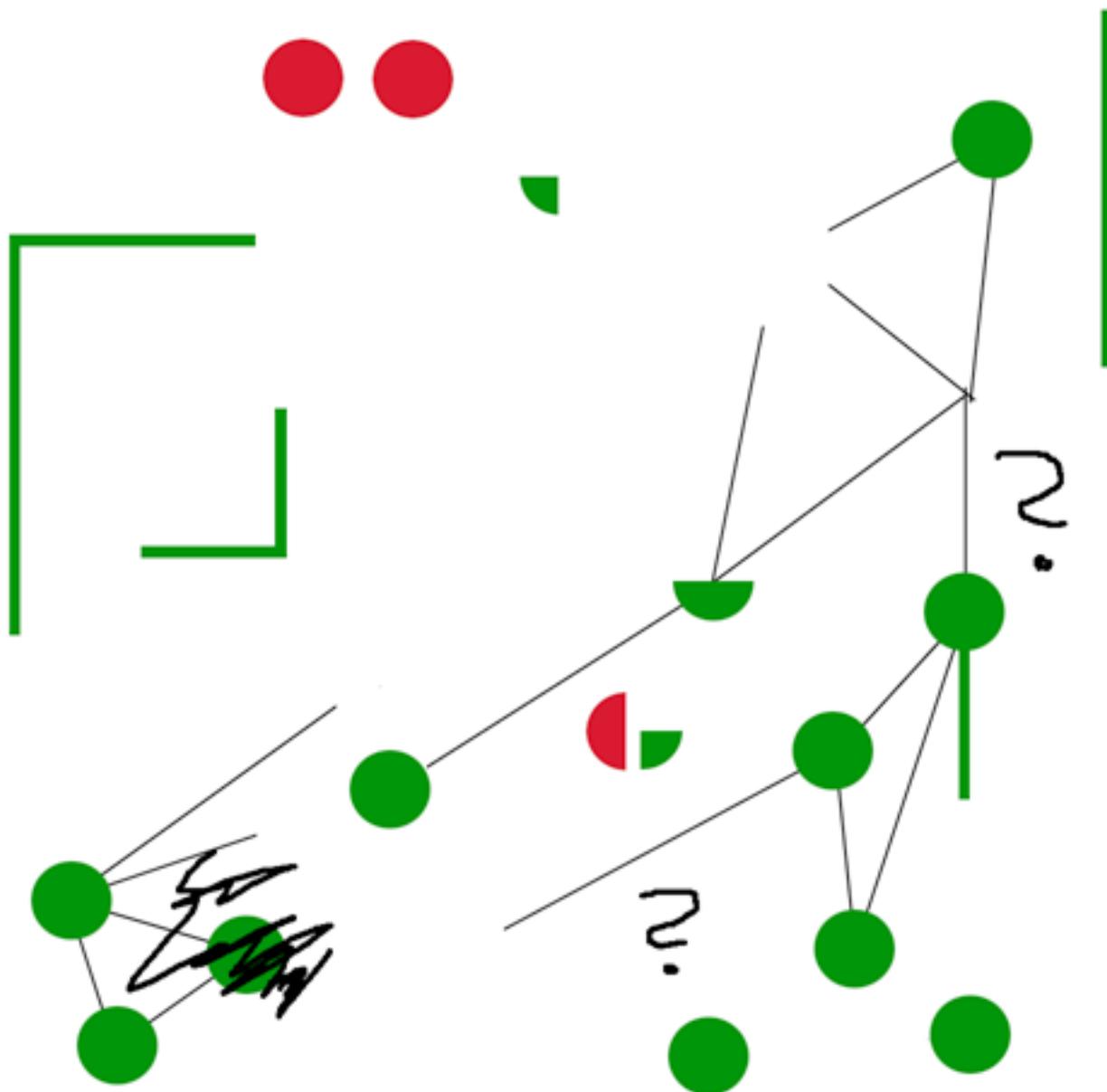
Integrated Modular



Modular



Traditional Max Patch



Why Modular is superior:

monolithic tool -> integrated use

modular tool -> modular use

modular tool -> integrated use

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**requirements
&
prerequisites**

- focused on music yet as generic as possible
- easy recognizable name and appearance (UX)
- fits into a class
- similar structure and sharing resources
- avoid dependencies
- follow right to left order
- use simple datatypes
- use defined parameter set
- individual total recall / automation per module
- global midi remote option for some modules

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data types

- int
 - float
 - bang
-
- list, symbol, midi, jitter...
-

2-bit 7-bit 0 - 999 0. - 1. -1. - 1.

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module classes

- system
- clock
- counter
- sequencer (gate)
- note
- chord
- gate
- generator
- formatting
- counter
- scale
- control
- display
- vel/dur
- in/out
- audio
- video
- (real) midi

