

MaxMSP Basic Patches

Kreatives Programmieren 1

Luís Antunes Pena

November 2024

Contents

0.1	Literatur	2
1	Basic Functions of a Synthesizer	2
1.1	VCO - Voltage Controlled Oscillator	2
1.2	VCF - Voltage Controlled Filter	2
1.3	VCA - Voltage Controlled Amplifier	2
1.4	LFO - Low Frequency Oscillator	2
1.5	ADSR - Envelope: Attack-Decay-Sustain-Release	2
2	Basic Patches	2
2.1	Violin	2
2.2	Wolf	3
2.3	RandomTone	3
2.4	Whistling	4
2.5	Banjo	4
2.6	Violin2	4
2.7	BellSine	5
2.8	Bell	5
2.9	Glockenspiel	6
2.10	Tremolo	6
2.11	StringEnsemble	6
2.12	Strings	7
2.13	ClarinetVC	7
2.14	Flute	8
2.15	ClarinetAS	8
2.16	Bassoon	8

2.17 EHorn	9
2.18 Clarinet	9
2.19 Trumpet	10
2.20 Recorder	10

0.1 Literatur

- Practical Synthesis for Electronic Music - Volume one. Roland.

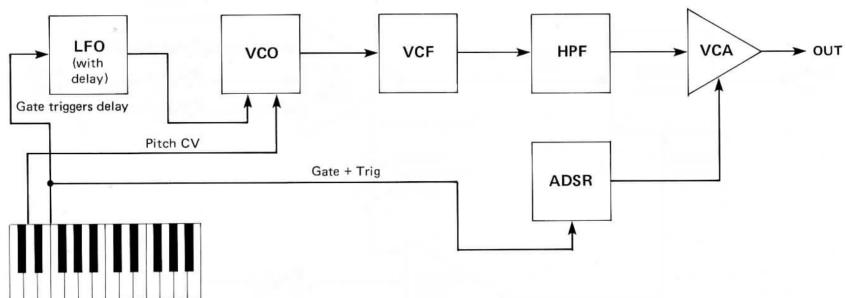
1 Basic Functions of a Synthesizer

- 1.1 VCO - Voltage Controlled Oscillator
- 1.2 VCF - Voltage Controlled Filter
- 1.3 VCA - Voltage Controlled Amplifier
- 1.4 LFO - Low Frequency Oscillator
- 1.5 ADSR - Envelope: Attack-Decay-Sustain-Release

2 Basic Patches

2.1 Violin

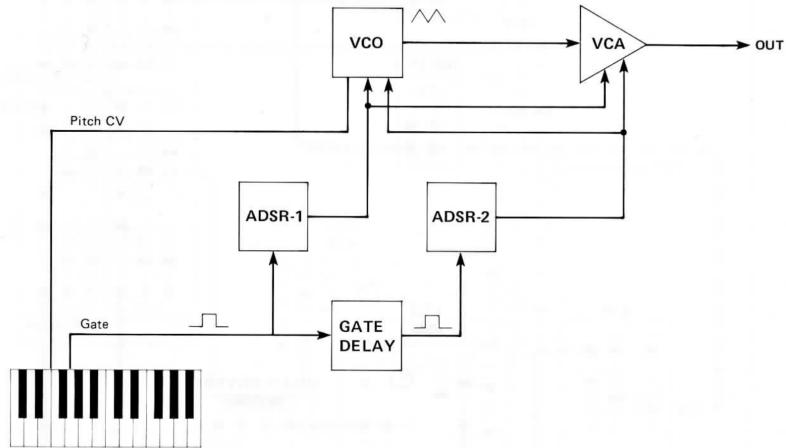
Fig. 2-2 VIOLIN with Delayed Vibrato (also VIOLA, CELLO, STRING BASS)
 ⑧ Block Diagram



2.2 Wolf

Fig. 3-23 WOLF WHISTLE (Gate Delay)

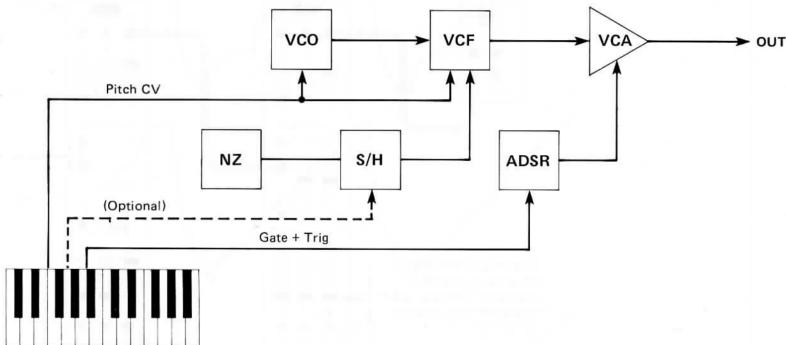
⑧ Block Diagram



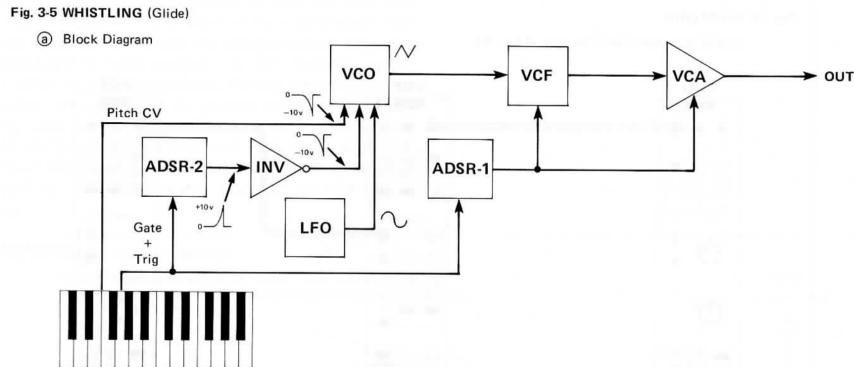
2.3 RandomTone

Fig. 3-16 Random Tone Color Modulation

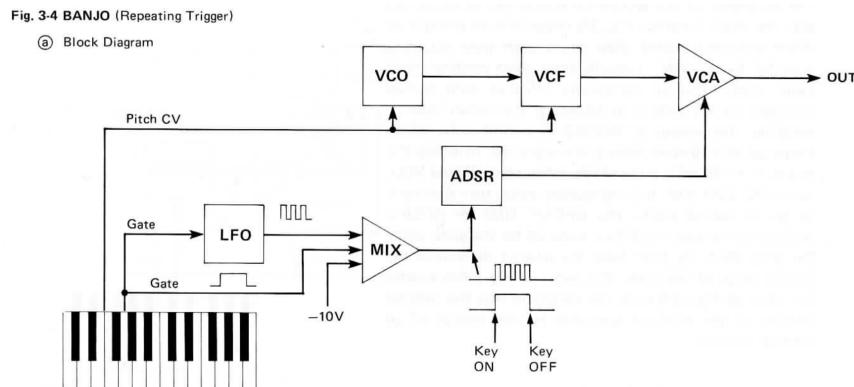
⑧ Block Diagram



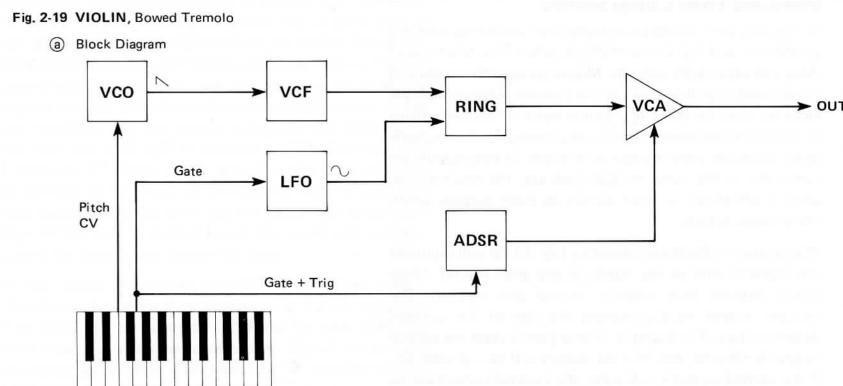
2.4 Whistling



2.5 Banjo



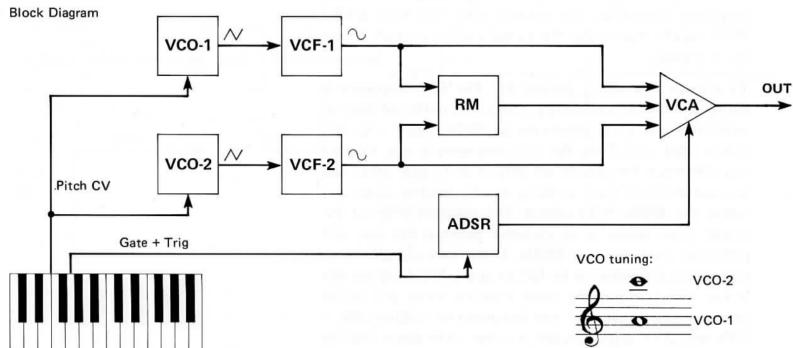
2.6 Violin2



2.7 BellSine

Fig. 2-18 BELL Using Sine Waves

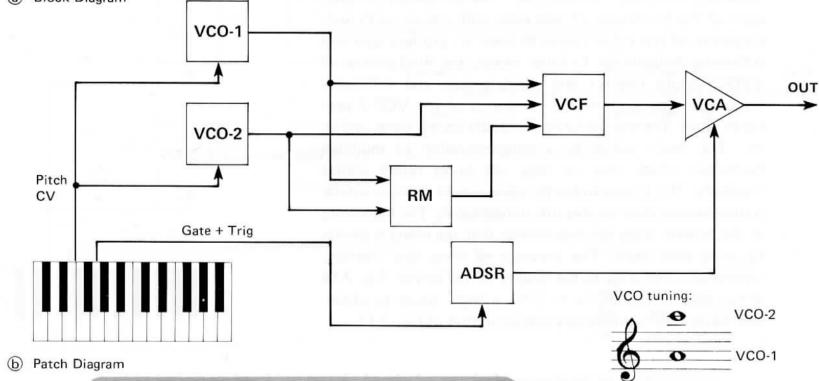
(a) Block Diagram



2.8 Bell

Fig. 2-17 BELL

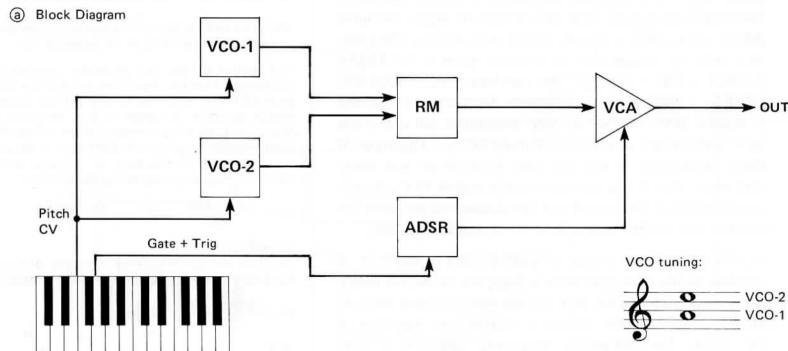
(a) Block Diagram



(b) Patch Diagram

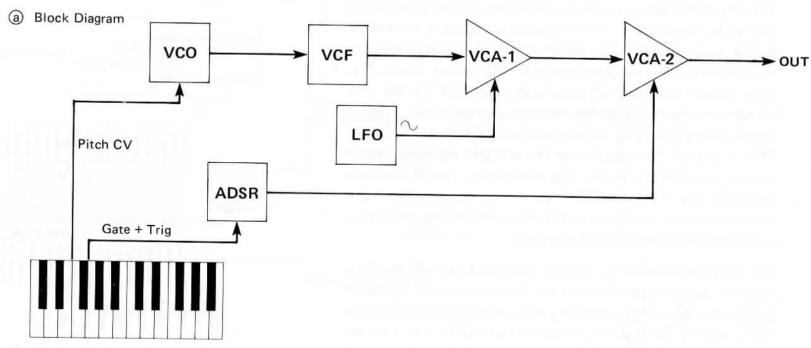
2.9 Glockenspiel

Fig. 2-16 GLOCKENSPIEL



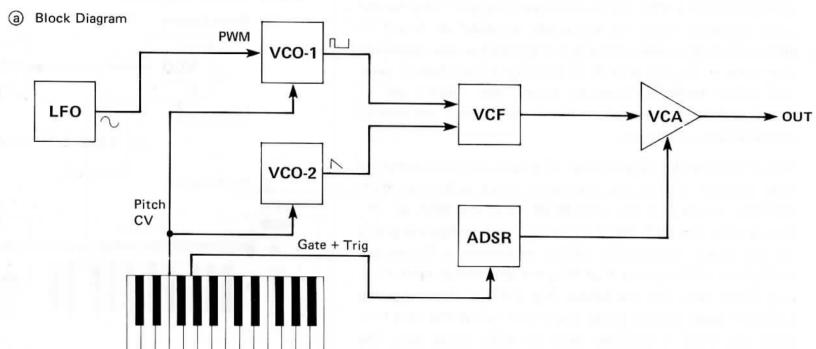
2.10 Tremolo

Fig. 2-14 Adding Tremolo to a Patch



2.11 String Ensemble

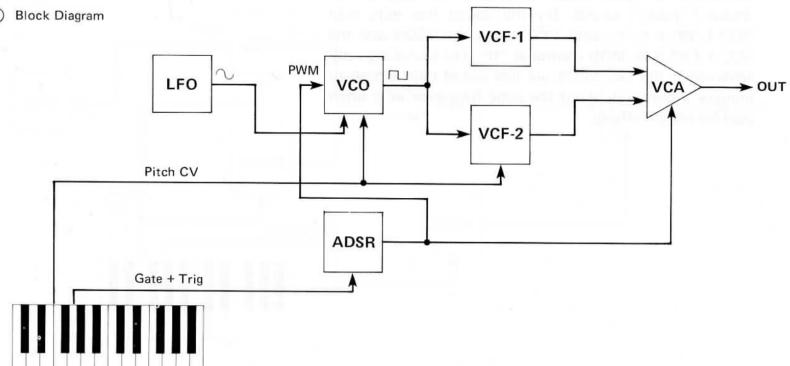
Fig. 2-11 STRING ENSEMBLE



2.12 Strings

Fig. 2-10 BOWED STRING BASS

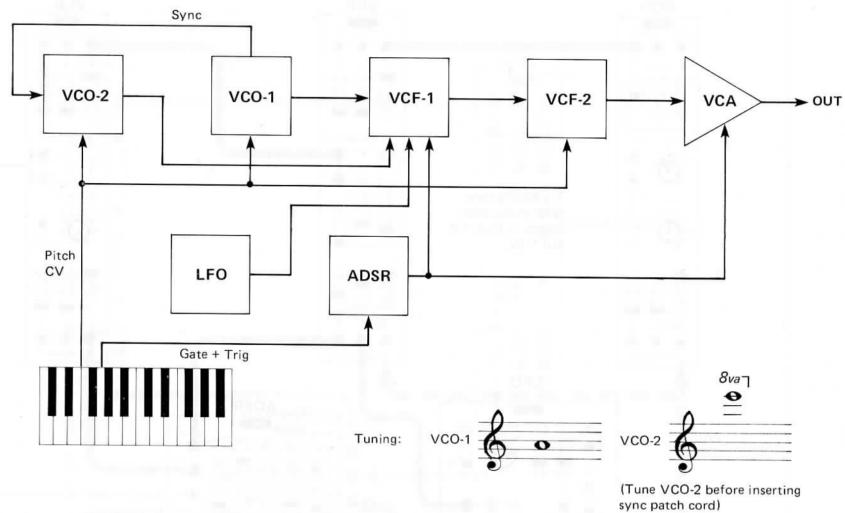
④ Block Diagram



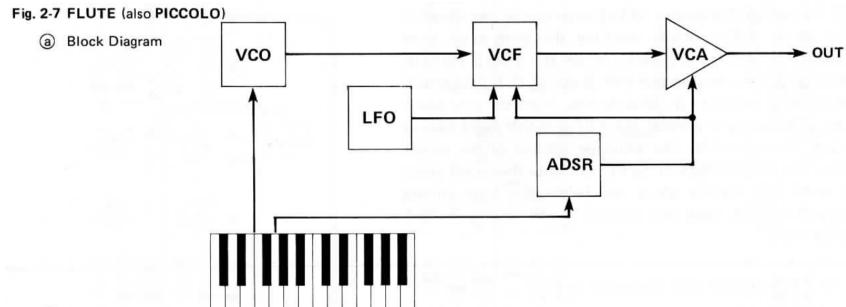
2.13 Clarinet VC

Fig. 2-8 CLARINET (VCF Modulation by VCO)

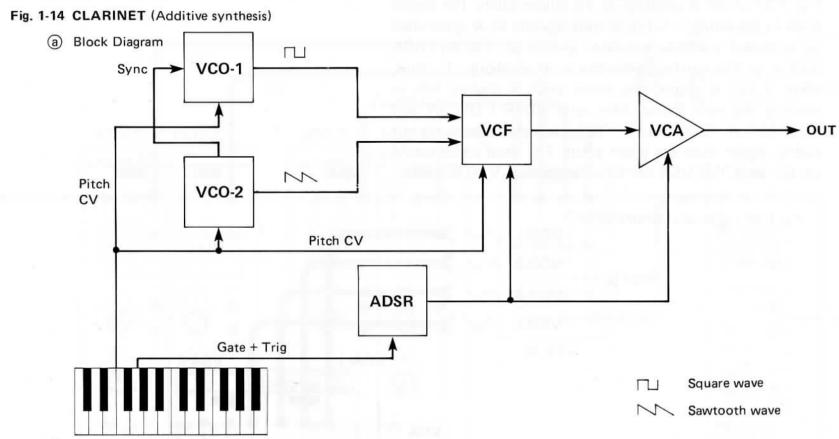
④ Block Diagram



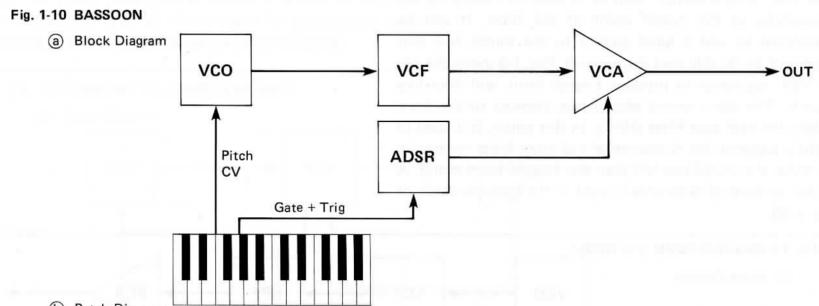
2.14 Flute



2.15 Clarinet AS

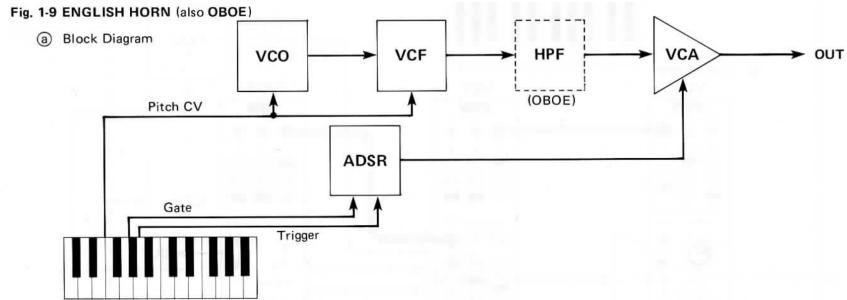


2.16 Bassoon



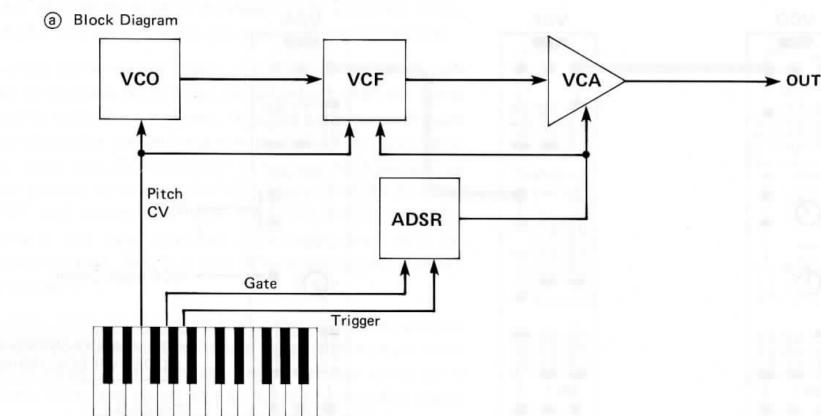
2.17 EHorn

Fig. 1-9 ENGLISH HORN (also OBOE)



2.18 Clarinet

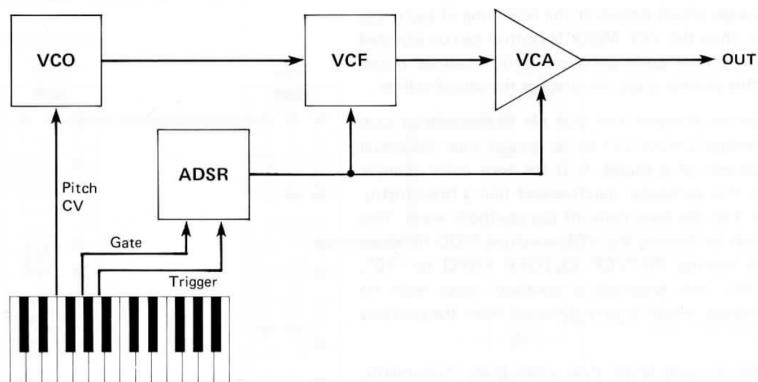
Fig. 1-8 CLARINET (also BASS CLARINET)



2.19 Trumpet

Fig. 1-6 HORN (also TRUMPET, TROMBONE, TUBA)

④ Block Diagram



2.20 Recorder

Fig. 1-4 Simple RECORDER

④ Block Diagram

