

RECURSIVE WAVES

A Case Study for a Mathematics of Affect



Recursive Waves: Modeling an Ontology of Affect

Recursive Waves is an ongoing experimental musical performance and mathematical framework (or maybe a bet-test performance) that attempts to transcend interpretation and share a new space (like a hilbert space or island of stability) by telling a story, working with the evolving capacities of computation and cryptography, and an evolving curiosity for sound and music. In collaboration with the audience, the work attempts to construct a group affective manifold a relatively predictable shared emotional topology through recursive processes of memory, sound, and computational translation. By mapping applied affect into sound, Recursive Waves explores how individual experience can resonate outward into collective states, producing an unfolding collective cycle of reflection and emergence.

Eye Movement Desensitization and Reprocessing

In EMDR therapy, the 'safe space' is a guided visualization used to ground and stabilize during trauma centered work. It creates an affective anchor, a predictable return to calm when arousal rises too high: rhythmic, predictable, sensory-rich, and inherently regulating.

Recursive Waves, my original anchor story (EMDR 'safe space')

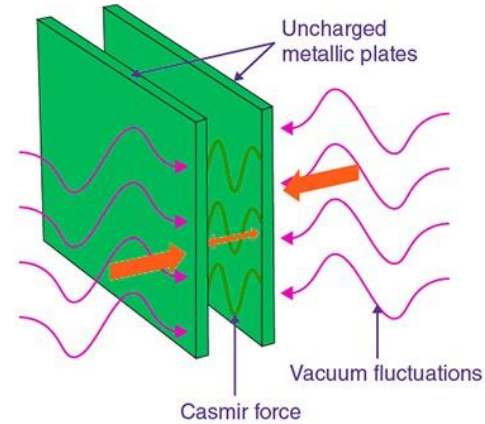
"I am looking out of my eyes at a rippling ocean surrounded by the blue black night. The moonlight shattering the surface of the water and cascades across the endless sea. The sand is cold and sings the scratching of my bare feet as I walk down the beach and lean into the glistening water. I steadily enter into a reverie of a new kind of euphoria and sensation, like the world has shattered into an infinite scalable quantity of worlds all at once. Swimming out into the icy water is a searing exhilaration of cold that awakens the skin and the breath. I glide seamlessly onto my back, drifting at the threshold of the open sea and the endless skies."

Resonance of the Casimir Effect

The Casimir effect shows that even “empty” space resonates with hidden forces, a quantum hum between boundaries. Like a gap at the fermi level. In my safe space, this is mirrored by the stillness between wave crests: silence that is not empty, but alive with potential. This resonance grounds my feelings or affect in both physics and affective ontology — an infinite calm that holds the body and mind.

Below: Rough garble the LLM spit out_V1

CTL Music Notation



The Case for an Affective Mathematics

The Affective Mathematics Framework


The **Periodic Table of Affect (PTA)** functions
as the overarching framework.

It describes **universal affective patterns** that
emerge in nature and human systems.

These patterns are not arbitrary — they are
grounded in and **analogous to the laws of
nature** (e.g., heavy-tailed distributions,
conservation principles, symmetry, entropy).

The PTA serves as a **map of affective
forces**, showing how emotions and states
follow structural logics similar to those found
in physics, biology, and network science.

CONSTELLATION TERMINAL LEXICON

	BALANCE	RADIANCE	FORCE	NETWORK	INFINITY	
BALANCE	Hu $E_{\text{defic}} = \frac{C_{\text{defic}}}{f_{\text{defic}}} = f_{\text{defic}}$ A deficit in energy, longing for replenishment.	Eq $F_b = \rho_{\text{fluid}} \Delta V g_{\text{displaced}}$ Buoyancy as the feeling of being held.	Il $I = \frac{I}{4 \pi r^2}$ Awe, the light, of-perception diminishing yet infinite.	Re $\Delta E = \mu_2 g m, B$ Zeeman splitting as relational pull, the affect of longing.	Ns $x(t) = A \cos (\omega t + \phi)$ Harmonic oscillation: memory as rhythmic return.	Aw $G_{\text{rel}} + \lambda \sigma_{\text{rel}} = \frac{\delta \pi G}{\delta \pi G}$ Spacetime curves; give before infinite cosmos.
RADIANCE	Sl $A(t) = A_0 e^{-\lambda t}$ Buoyancy as the longing for being held.	Wm $Q = mc \Delta T$ Heat transfer as intimacy; the body held by fire or embrace.	Il $I = \mu_1 \frac{\mu_2 g}{r^2}$ Awe, the light of perception diminishing yet infinite.	Fe $F = ma$ The sudden force of acceleration: body moved by unseen threat.	Gr $N(t) = N_0 e^{-\lambda t}$ Decay; fading presence, the echo of exponential	Em $Dx \sim \Delta x \frac{h}{2}$ Uncertainty principle: freedom in indeterminacy.
	Balance $E_p _{\text{def}} = \frac{1}{2} \pi \frac{\Delta Q X}{\Delta p}$	Force Force	Time Time	Network Network	 CONSTELLATION TERMINAL PROTOCOL	



CTL MUSIC SCALE

CONSTELLATION
TERMINAL LEXICON

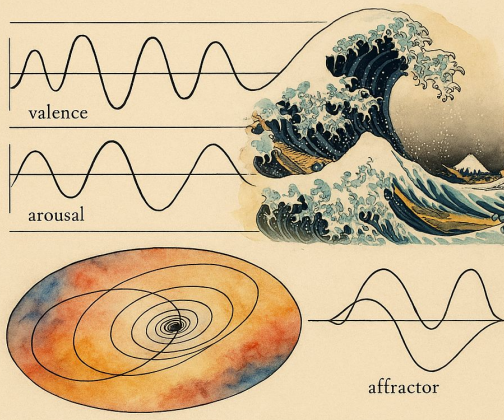
Eq Equilibrium 	Il Illumination 	Re Resonance 	Gr Grief
Hu Hunger 	Fe Force 	Wm Warmth 	Oscillation Emergence
Um Force 		Emergence Belonging 	

Affective Ontology (AO) – Foundational Lexicon & Ladder

1	Subatomic → Affective Charges	Physics: quarks, gluons, spin. λ langenl(n) - Operator	
2	Nucleus → Affective Core	Proto-clusters of safety, trust as elemental affects	
3	Atom → Affective Element (PTA Unit)	Love, Fear, Awe, Grief as elemental affects	Operator
4	Molecule → Covalent/ionic/metallic bonds Affective: Thrill (Fear & Arousal), Bittersweet	Thrill (Fear & Arousal); Bittersweet (Love & Grief) Sublime (Awe & Terror) Operator: entanglement	
5	Protoplasm → Proto-Affective Medium	Autocatalysis, reaction-diffusion	Operator
6	Cell → Affective Unit	Circulating textures, baseline moods	Operator
7	Tissue → Affective Pattern	Specialization routing	Operator
8	Organ → Affective Circuitry	Phase alignment & coherence	Operator
9	Organism → Individuated Psyche	Self with personality, affective style	Operator
10	Bioblogy: Attractors, stress-response	Contagion of joy, panic Infestation	Operator
11	Community → Cultural Field	Rituals, Institutions stabilize heavy affects	Operator
12	Ecosystem Complex → Symbolic Landscape	Art, media, narratives encoding affects	Operator
14	Biome → Civilizational Narrative	Shared myths, ethics, cosmologies	Operator
15	Ecosphere/Earth → Planetary Affective Sphere	Planetary moods, collective affective waves	Operator
16	Universe → Universal Affective Field	signal>noise: trust as universal metric	coherence
15	Universe → Universal Affective Field	Signal>noise, trust as universal metric	coherence
16	Universe → Universal Affective Field	Coherence fields, nonlocal assembly	ancheracen

RECURSIVE WAVES

MAPPING AFFECT TO WAVE FUNCTIONS



PERIODIC TABLE OF AFFECTS

IRIT.	INT.	RAPT.	JOY
ANGE	SURP.	PLEAS.	SUAP.
HAP.	EEXCE.	EXCIT.	RAE
RAGE	FEAR	AMUSE.	PRIDE
ANNDY	ANCE	SADN.	CALM
GRIEF	MELER	NECHY	HOPE

AFFECTIVE MUSICAL SCALE



SECTION 1: Sorrow (M6 → M7) SECTION 2: Dread (M6 → M7) SECTION 3: Fear (M6 → M7) SECTION 4: Hope → Anticipation (M6 → M7) SECTION 5: Shock → Grief

Violin I (Melody)

Violin II

Viola

Cello (Pedal/Bass)

Flutes/Clarinets (Fear Runs)

Horns/Trumpets (Storm)

Harp (Hope Arpeggios)

Timpani/Cymbal

Piano (Final Hit)

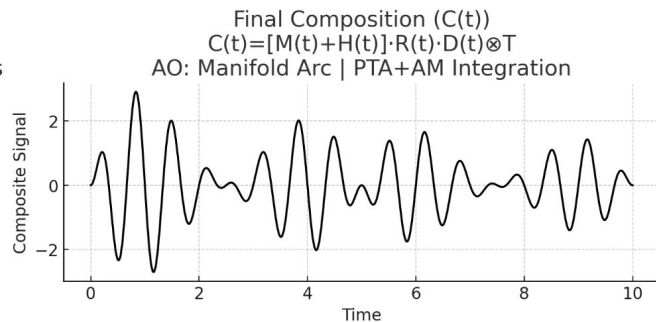
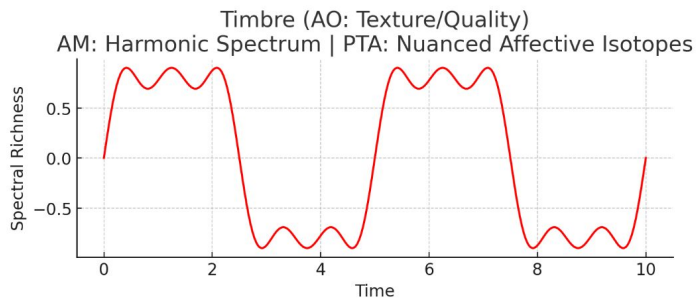
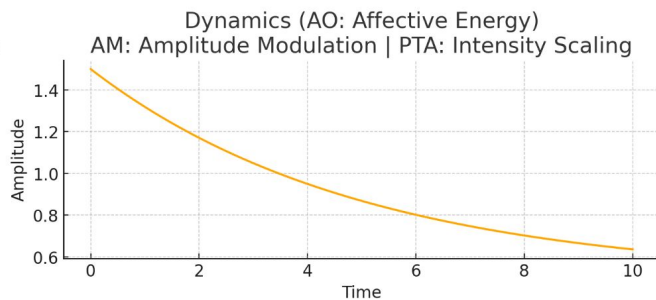
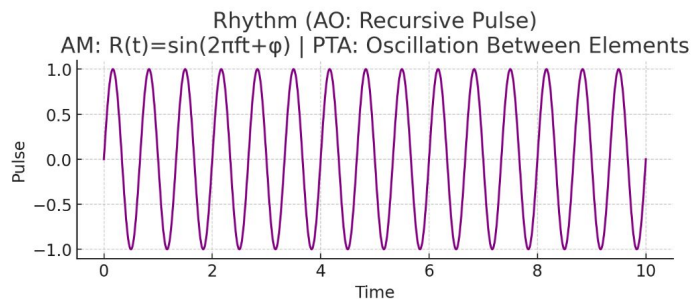
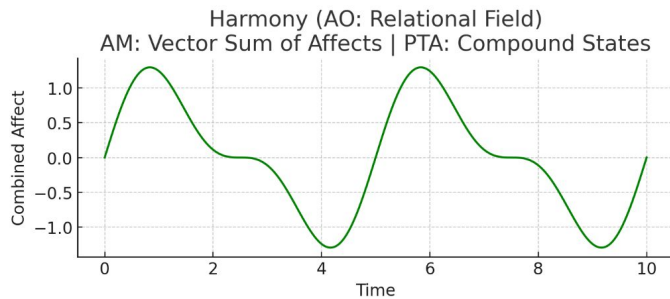
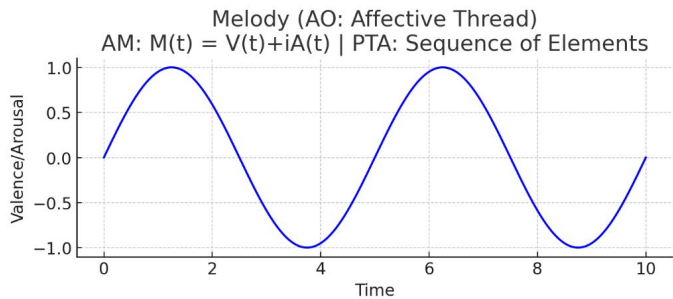
Crash

Harp Arpeggios (lift)

Final Hit → Silence

- AO Lexicon [Link](#)
- Periodic Table of Affect (PTA) [Link](#)
- Comparison Standard Periodic Table Elements to PTA [Link](#)
- Ontology of Affect proposed mapping [link](#)
- AI Training Manual_V1 [Link](#)
- Musical Scale chart [Link](#)
- PTE Mapping w/ reasoning [Link](#)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	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affect to musical scale
initial ideas - currently
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