

I Hear Numbers (Tall Kite)

Tuning: 7-limit adaptive just intonation

Tonic: C at 0¢ from A-440 12-ET

Notation is explained at xenharmonic.wikispaces.com/Kite's+color+notation

The actual midi files used are available at www.TallKite.com/music/IHearNumbers.html

These files let you see and hear each part individually, functioning as a substitute for a full music score

All instrumental sounds are from the Yamaha s90es, tuned with alt-tuner

Backing vocals by Hope Taylor

Mixed by Mark Frethem, aka "Doctor Digital"

Untuned midi file (205 bpm):

channel 1 & 2: keyboard (left & right hand)

channel 3: guitar

channel 4: bass guitar

channel 5: synth lead in 41-note scale, middle-C = note #53, CC #22 is for bending, not tuning

channel 6-7: congas (6 = high, 7 = low)

channel 8-12: drums (chan 8 = kick, ch9 = snares, ch10 = hihat, ch11 = cymbals, ch12 = bell and toms)

channel 13-15: backing vocals (demo)

channel 16: CC messages for tuning switches, CCs 21-29 for tunings 1-9:

1: wC, bgD^b, wD, bE^b, yE, wF, bgG^b, wG, bA^b, yA, bB^b, yB (solo)

2: wC, bD^b, yD, bE^b, yE, wF, bgG^b, wG, bA^b, yA, wB^b, yB (solo)

3: wC, bgD^b, wD, bE^b, yE, bF, bgG^b, wG, bgA^b, wA, bB^b, yB (intro, solo, verse, breakdown, coda)

4: wC, ryC[#], wD, bE^b, yE, bF, ryF[#], wG, ryG[#], yA, bB^b, yB (chorus)

5: bbggD^b, bgD^b, bbgE^b, bE^b, bbgF^b, bF, bgG^b, bbggA^b, bgA^b, bbgB^b, bB^b, bgC^b
(breakdown)

6: rryyB[#], ryC[#], rryyC^x, rryD[#], rE, rryE[#], ryF[#], rryyF^x, rryG[#], rA, rryA[#], ryB (breakdown)

7: wC, ryC[#], rD, gE^b, rE, wF, ryF[#], wG, ryG[#], rA, gB^b, rB (breakdown)

8: bC, bgD^b, wD, bgE^b, yE, bF, yF[#], wG, bgA^b, wA, bB^b, yB (bridge, coda)

9: bC, yC[#], bD, bgE^b, wE, bgF, yF[#], bG, yG[#], wA, bgB^b, wB (bridge)

Tuned midi file (205 bpm, assumes a 2-semitone pitch bend range):

channels 1-5: keyboard (channel 1 = left hand)

channels 6-8: guitar

channels 9-10: bass guitar

channel 11: synth lead in 12-note scale, CC #22 is for bending up/down 1 octave, not for tuning

channels 12-14: backing vocals (demo)

channel 15: congas

channel 16: drums

The synth uses a fixed 41-note scale:

wC rC bD^b bgD^b gD^b aD yD wD rD

bE^b wE^b gE^b jE^b yE ryE rE

bF wF gF jF bgG^b ryF[#] aG yG wG rG

bA^b bgA^b gA^b eA^b yA wA rA

bB^b wB^b gB^b jB^b yB ryB rB bC wC

Chords:

section	tuning	chords			
intro	3	Gyb	yEgg,bg5	Gyb	yEgg,bg5
	3	Gyb	yEgg,bg5	Gyb	/
solo 1	1	Cyb	bE ^b gr	Fyb	/
	1	Cyb	bE ^b gr	Fyb	/
	2	wB ^b yb	/	bE ^b gr	/
	1 & 3	bA ^b rg	/	Gyb	/
verse 1	3	Cyb	bB ^b gr	Cyb	bB ^b gr
	"	Cyb	bB ^b gr	Cyb	bB ^b gr
	"	Cyb	bB ^b gr	Cyb	bB ^b gr
	"	Cyb	bB ^b gr	Cyb	/
chorus	4	yAgg	/	yBgr,bg5	/
	"	/	/	yAgg	/
	"	/	/	yBgr,bg5	/
	"	yArg	yAgr,bg5	Gyb	/
solo 2		like solo 1			
breakdown	3 & 5	Cyb	bB ^b gr	bgG ^b yb	bbgB ^{b b} gr = rryG [#] gr
	6, 7 & 3	rryD [#] yb	ryF [#] gr	rAyb	Gyb
verse 2	3	Cyb	bB ^b gr	Cyb	bB ^b gr
	3 & 8	Cyb	bB ^b gr	Cyb	wDyb
bridge	8	Gyb	Gbb,bg5	wDyb	/
	8 & 9	/	wDbb,bg5	Gyb	wAbb
	9	wEyb	wEbb,bg5	wAyb,bg9	wAyy
	9 & 8	/	wAbb,bg5	wDyb	Gyb
solo 3		like solo 2			
coda	3	Cyb	/	bB ^b gg	/
	"	bE ^b rg	/	Gyb	/

In the breakdown, bbgB^{b b} and rryG[#] differ by only b⁴gg3 = 2401/2400 = 0.7¢. In other words, the breakdown pumps the 2401/2400 comma.

Lyrics:

Is this a stroke of genius or a total waste of time?
Am I the coolest guy on earth or have I lost my mind?
I'm obsessed with numbers, I can hear them in my head,
I can see the colors and they're green and blue and red!
I got to stop, I'm gonna stop real soon
I promise honey, I'm gonna feed the cat and clean the room
I promise that I'll get some sleep, I know I'm acting strange,
But I can't stop thinking 'bout the numbers in my brain!
I hear numbers, I hear numbers, I hear numbers, I hear numbers

Gonna fiddle with the midi, gonna twiddle it a little bit
And pan it to the middle with a little bit of sizzle
And compress the mids a little less and it'll be impressive
'Cause the midi is the message and the message is a riddle
I hear numbers (The midi is the message) I hear numbers (The message is a riddle)
I hear numbers (The midi is the message) I hear numbers (The message is a riddle)
I hear numbers (The midi is the message and the message is a riddle)

I hear numbers, I hear numbers, I hear numbers, I hear numbers

I hear numbers, I hear numbers, I hear numbers, I hear numbers
All the time, all the time, all the time, all the time
Obsessed with numbers, I can hear them all the time
I can see the music, the colors are divine!
Obsessed with numbers, I can hear them in my mind
Seven six, seven five, and fourteen over nine
Obsessed with numbers, now I hear them all the time