

GAME MUSIC COMPOSER

REVIEW TEMPO, METER, HARMONICS

ONE DAY

GAME MUSIC COMPOSER

REVIEW 10-20 MINUTES

CONCEPTS | FORM AND STRUCTURE 10-15 MINUTES

DEVELOPING SKILLS PRACTICE 50 MINUTES

SHORT BREAK 10 MINUTES

MEETING WITH DEVELOPER 15 MINUTES @11:00 AM

PROJECT PLANNING MEETING WITH INSTRUCTOR 10-15 MINUTES

PRACTICE EXERCISE IN SKILLS WITH SLIGHT VARIATIONS 30
MINUTES

REVIEW CONCEPTS | HOMEWORK 10-20 MINUTES @11:30 AM

Github

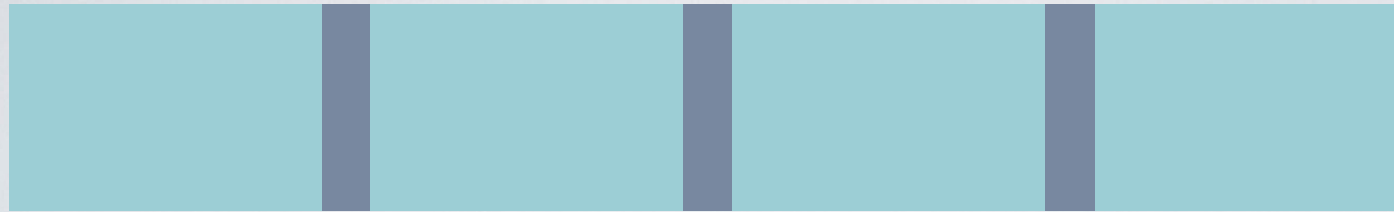
<https://github.com/junior-devleague/GameProductionProgram/tree/master/GameMusicComposition/Week3>

<http://ciocan.github.io/angular-wheel-rhythm/>

REVIEW

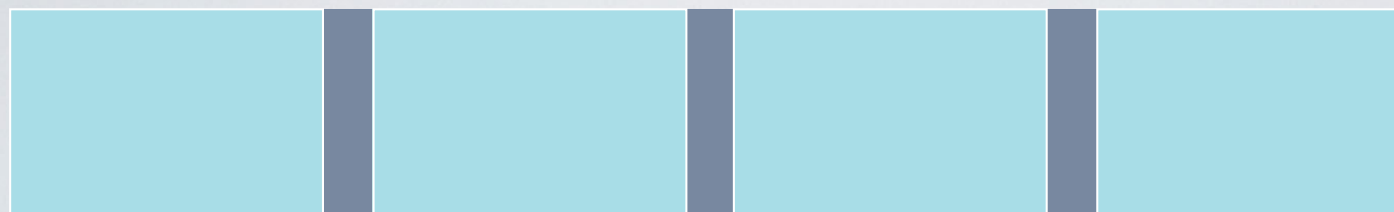


IBAR



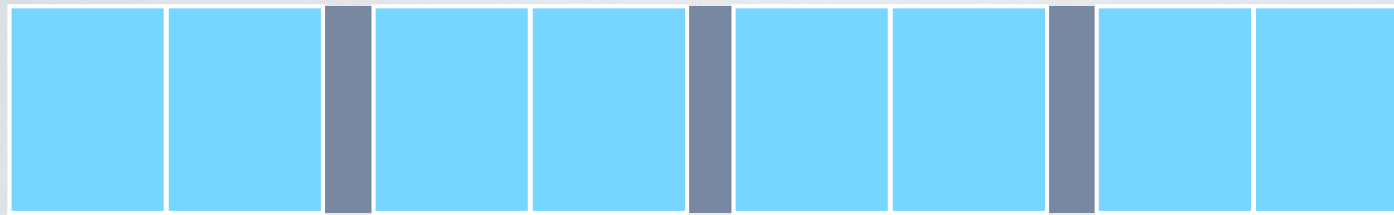
1 BAR

4 divisions

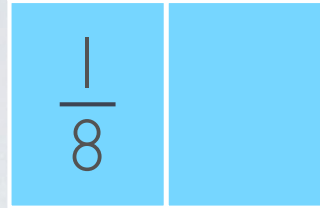


I BAR

4 beats
4 divisions



I BAR

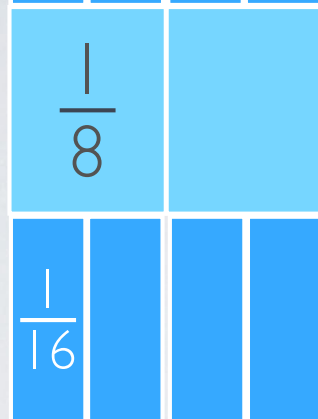


4 beats
4 divisions



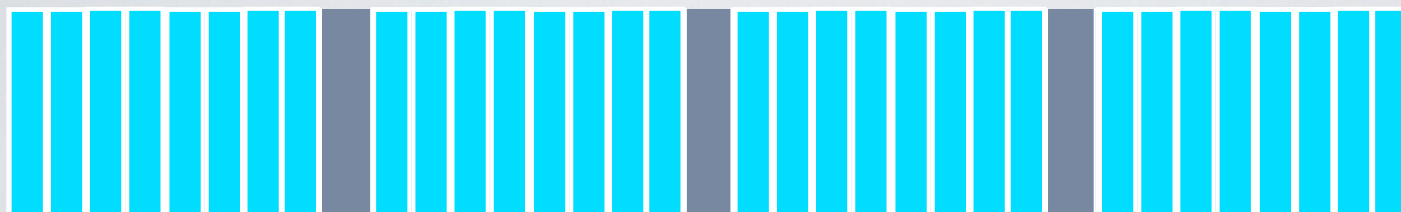


I BAR

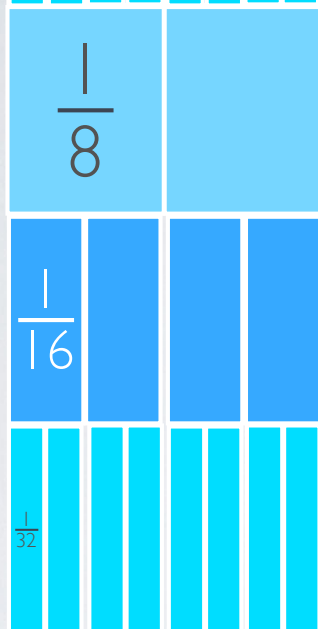


4 beats
4 divisions



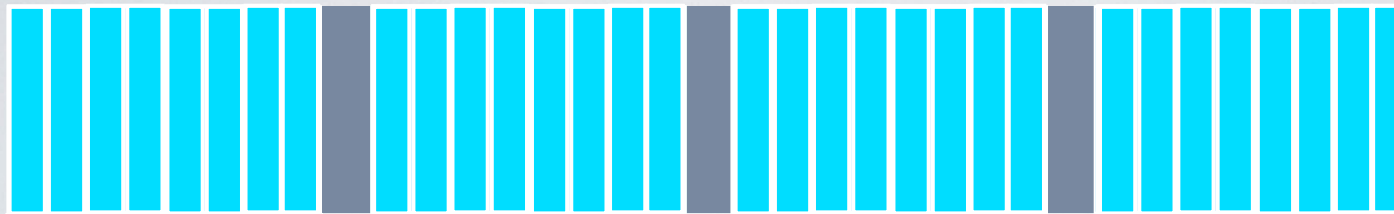


I BAR

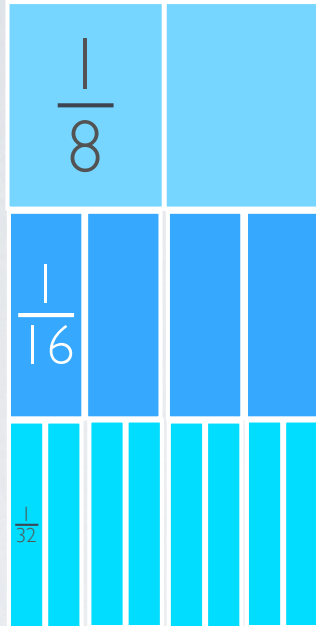


4 beats
4 divisions





1 BAR



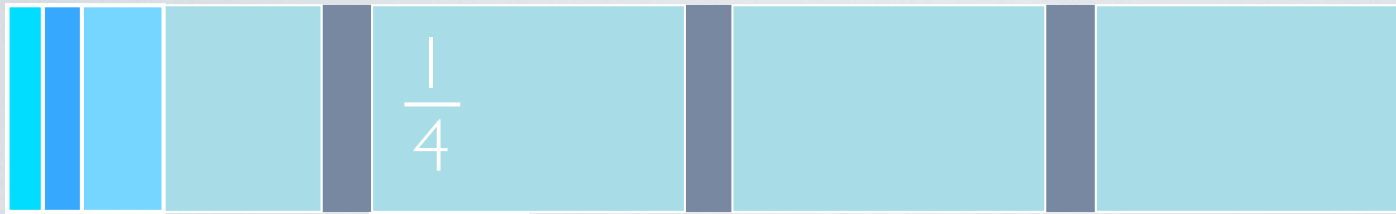
4 beats
4 divisions

Tempo bpm : heart rate
120 beats : 120 quarter notes
per minute

$$\frac{120 \text{ beats}}{60 \text{ seconds}} = \frac{2 \text{ beats}}{1 \text{ seconds}}$$

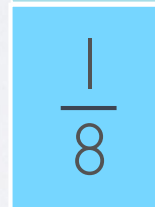


2 beats per second
1 beats per 0.5 second
1 qtr. note per 0.5second



2 beats per second

1 BAR : MEASURE

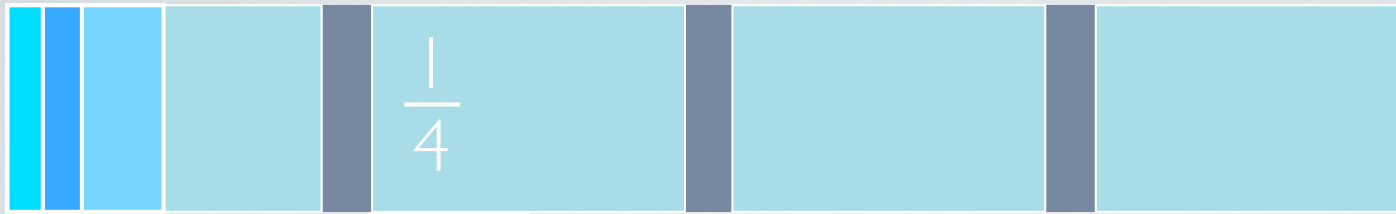


play: c4, release: 0.5

play: c4, release: 0.25

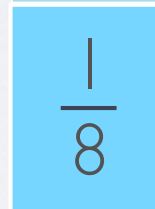
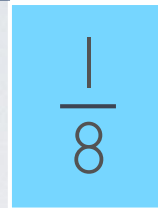
play: c4, release: 0.125

play: c4, release: 0.0625



2 beats per second

1 BAR : MEASURE



use_bpm 120

play: c4

play: c4, release: 0.5

play: c4, release: 0.25

play: c4, release: 0.125

MIDI no.

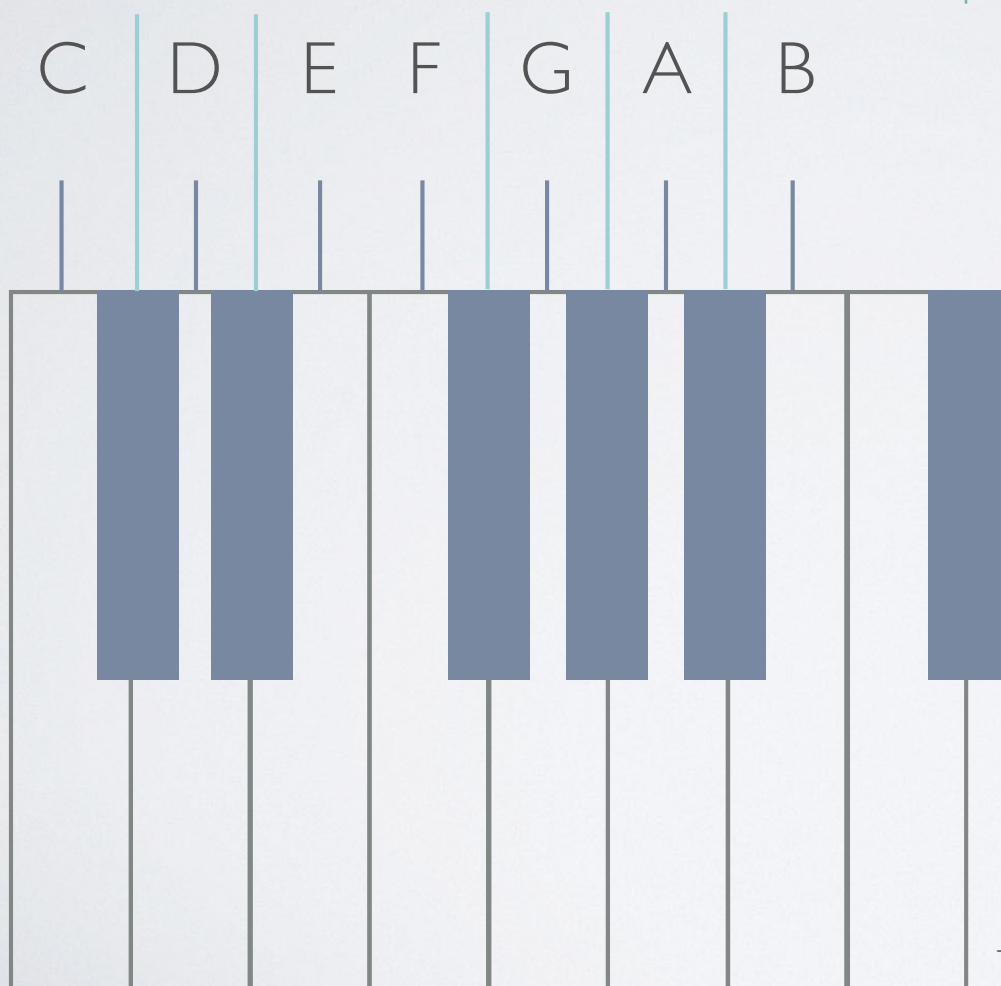
8	120	121	122	123	124	125	126	127				
7	108	109	110	111	112	113	114	115	116	117	118	119
6	96	97	98	99	100	101	102	103	104	105	106	107
5	84	85	86	87	88	89	90	91	92	93	94	95
4	72	73	74	75	76	77	78	79	80	81	82	83
3	60	61	62	63	64	65	66	67	68	69	70	71
2	48	49	50	51	52	53	54	55	56	57	58	59
1	36	37	38	39	40	41	42	43	44	45	46	47
0	24	25	26	27	28	29	30	31	32	33	34	35
-1	12	13	14	15	16	17	18	19	20	21	22	23
-2	0	1	2	3	4	5	6	7	8	9	10	11

Octave

The numbers refer to note at different octave range and pitch

12 pitches

C D E F G A B

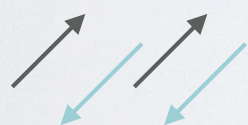
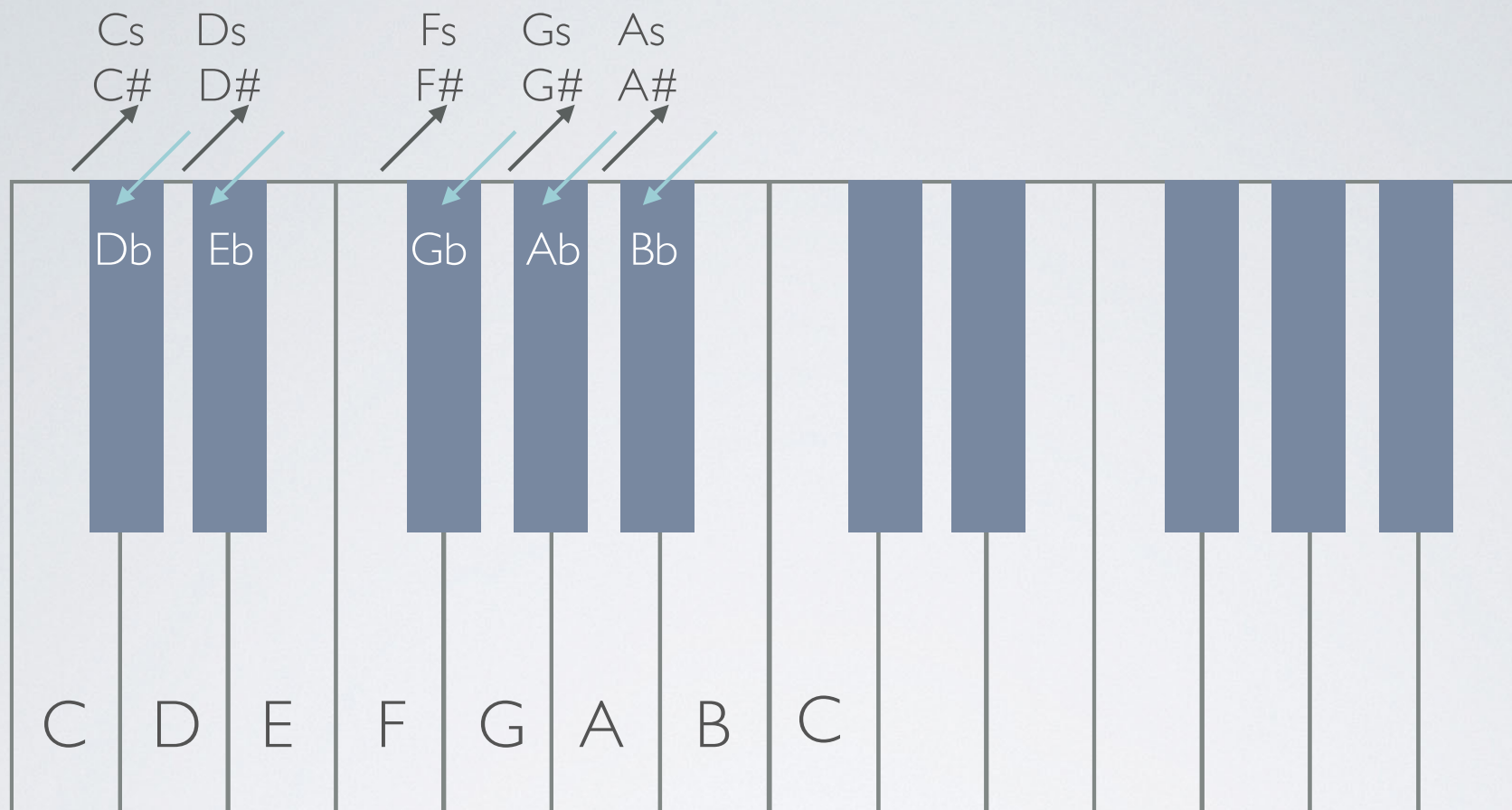


These are the numbers translated in Sonic PI when you type pitches

HARMONY

AN INTERVAL IS...

- An interval is the difference of (at minimal) two pitches.

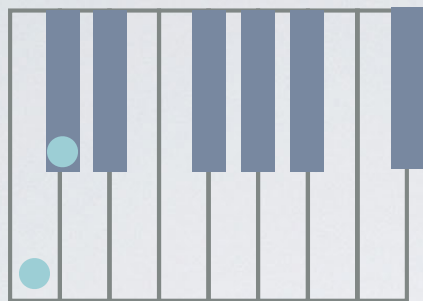


Semitones | half steps

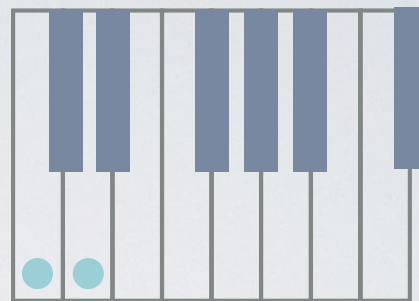
Identify a whole step



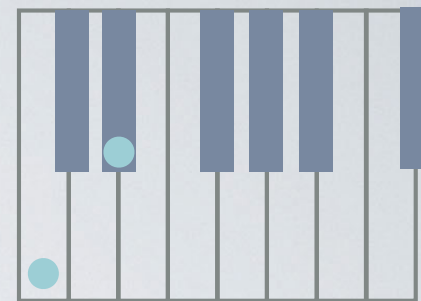
prime/unison



minor second



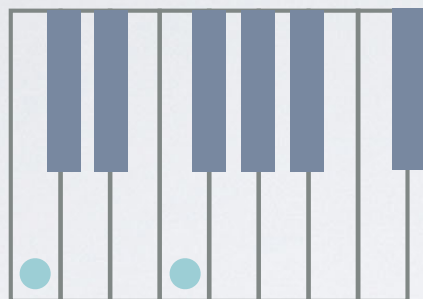
major second



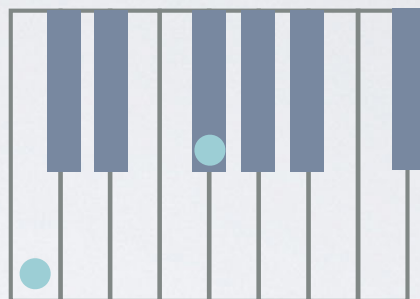
minor third



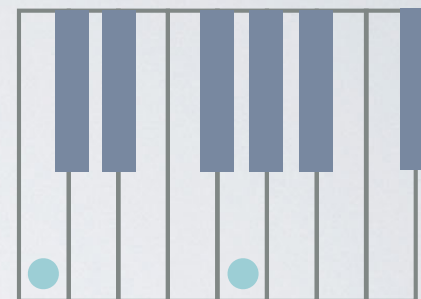
major third



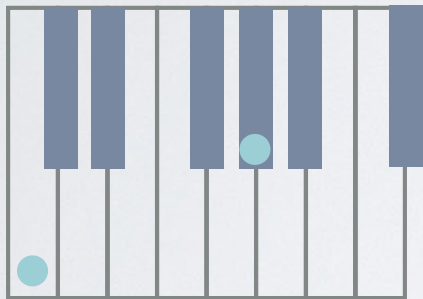
perfect fourth



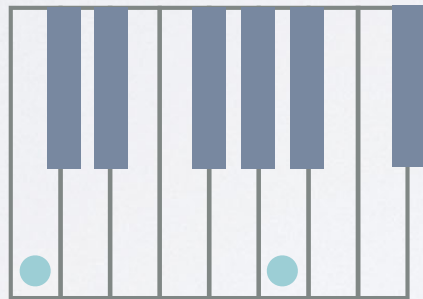
augmented fourth



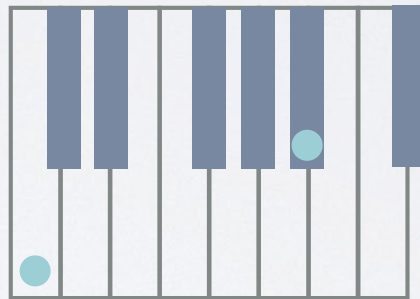
perfect fifth



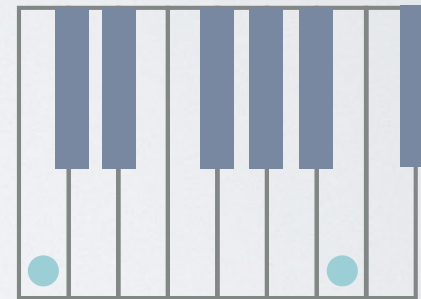
minor sixth



major sixth



minor seventh



major seventh



octave

13 interval harmonies in the octave via C note

Exercise| Translate this to sequence steps

<http://onlinesequencer.net/>

Exercise | Sequence|Code in SonicPI

1. Unison

2. Octave

3. Perfect fifth

4. Perfect fourth

5. Major third

6. Minor sixth

7. Minor third

8. Major sixth

1. Major second

mild dissonance

2. Minor seventh

3. Minor second

severe dissonance

4. Major Seventh

5. Augmented fourth

Perfect to imperfect consonance

Exercise | Sequence|Code in SonicPi

1. Prime or unison

2. Octave

3. Perfect fifth

4. Perfect fourth

5. Major third

6. Minor sixth

7. Minor third

8. Major sixth

9. Major second

10. Minor seventh

11. Minor second

12. Major seventh

13. Augmented fourth/diminished fifth

Graduated spectrum of consonant to dissonant intervals