GAME MUSIC COMPOSER

Focus on Harmony and Sonic-PI play

Creative Track Emphasis

Junior Dev League

DAY:TWO

Background <=>Mechanics
Adaptations
Synthesis

ONE DAY

GAME MUSIC COMPOSER

GAME MUSIC BACKGROUND 10-20 MINUTES
SHORT BREAK 10 MINUTES
CONCEPTSI FORM AND STRUCTURE 10-15 MINUTES
DEVELOPING SKILLS PRACTICE 50 MINUTES
SHORT BREAK 10 MINUTES
MEETING WITH DEVELOPER 15 MINUTES
PROJECT PLANNING MEETING WITH INSTRUCTOR 10-15 MINUTES
PRACTICE EXERCISE IN SKILLS WITH SLIGHT VARIATIONS 30 MINUTES
REVIEW CONCEPTS I HOMEWORK 10-20 MINUTES

Get Comfortable with Github

Github setup!
https://github.com/junior-devleague/GameProductionProgram

Brackets - Code Editor
iTerm3 - Terminal

Not Ready for Game Development until Sonic-PI mechanics are down

Tempo, Rhythm, Notes, Chords and Melody in units and forms

Pick out patterns from your favourites game music

Github

Upload your 5 songs last week in Week1 Folder

Get connected with everybody in your group and your dev partner

Pick another 5 songs this week and upload it in Week2 Folder

Basic MIDI Chart

The numbers refer to note at different octave range and pitch

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

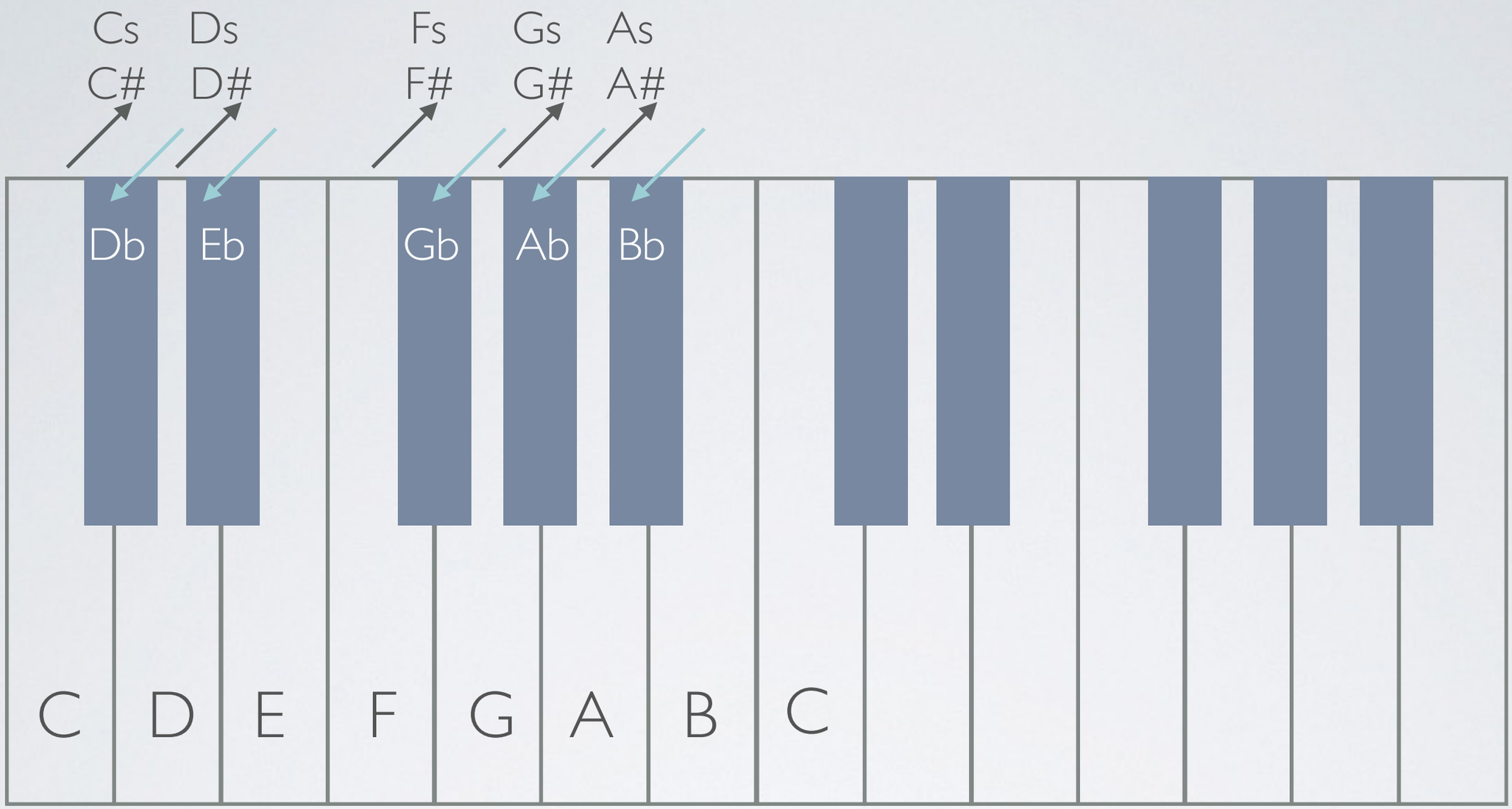
12 pitches

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

HARMONY

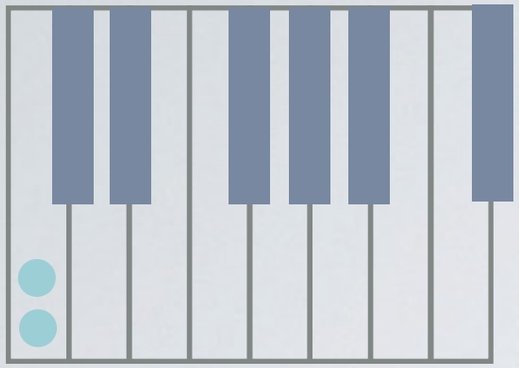
WHAT IS AN INTERVAL?

- The differences in a minimum of two pitches.

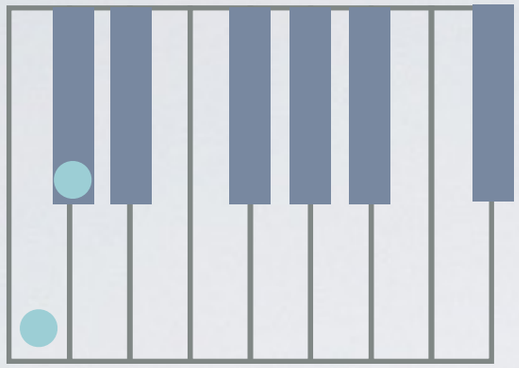


Semitones | half steps

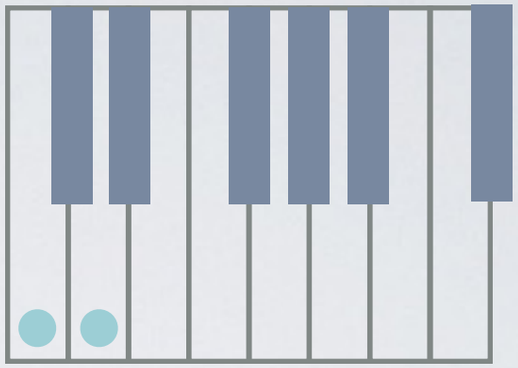
Identify a whole step



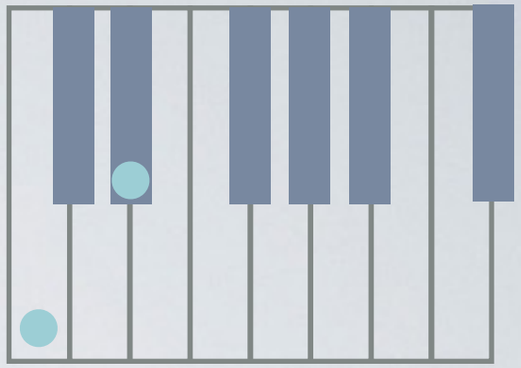
prime/unison



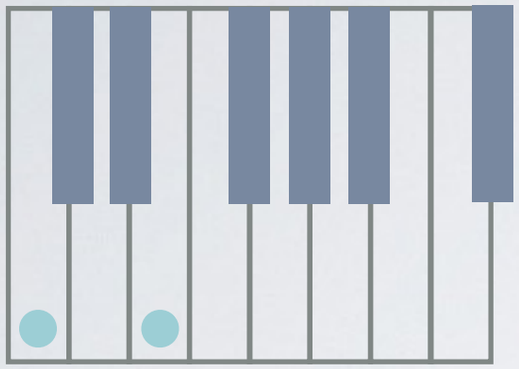
minor second



major second

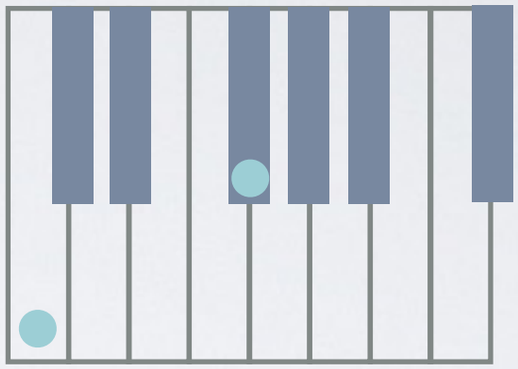


minor third

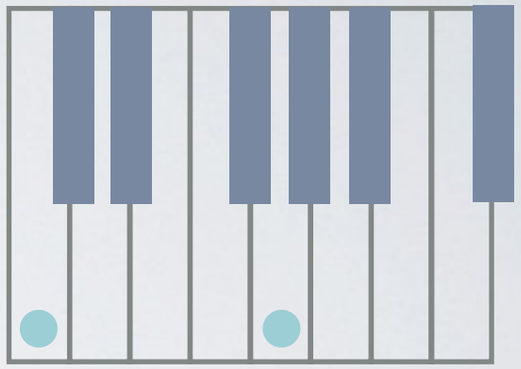


major third

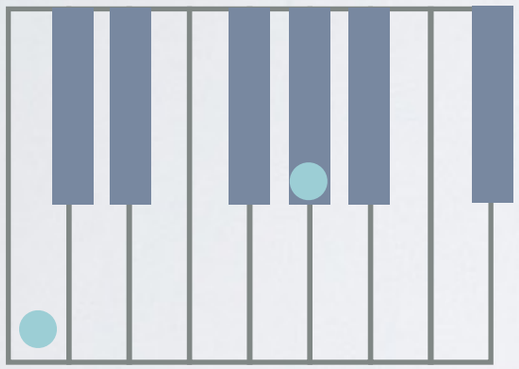
perfect fourth



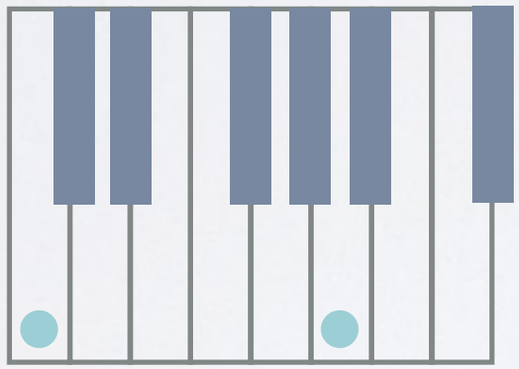
augmented fourth



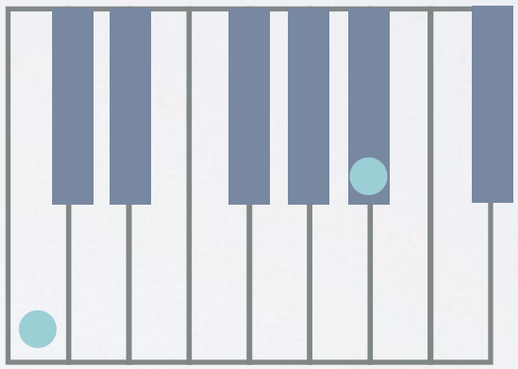
perfect fifth



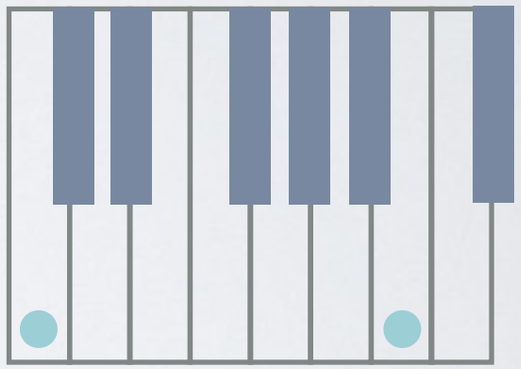
minor sixth



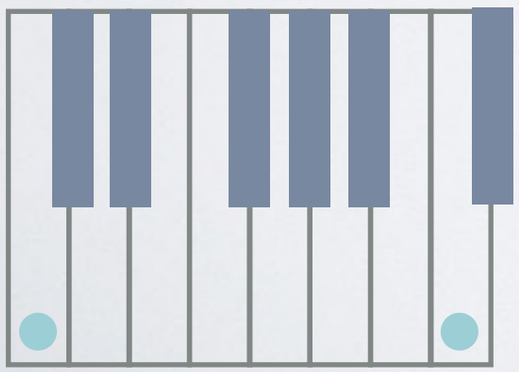
major sixth



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

1. Unison
2. Octave
3. Perfect fifth
4. Perfect fourth
5. Major third
6. Minor sixth
7. Minor third
8. Major sixth

Perfect to imperfect consonance

1. Major second
2. Minor seventh

mild dissonance

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3. Minor second
4. Major Seventh
5. Augmented fourth

severe dissonance

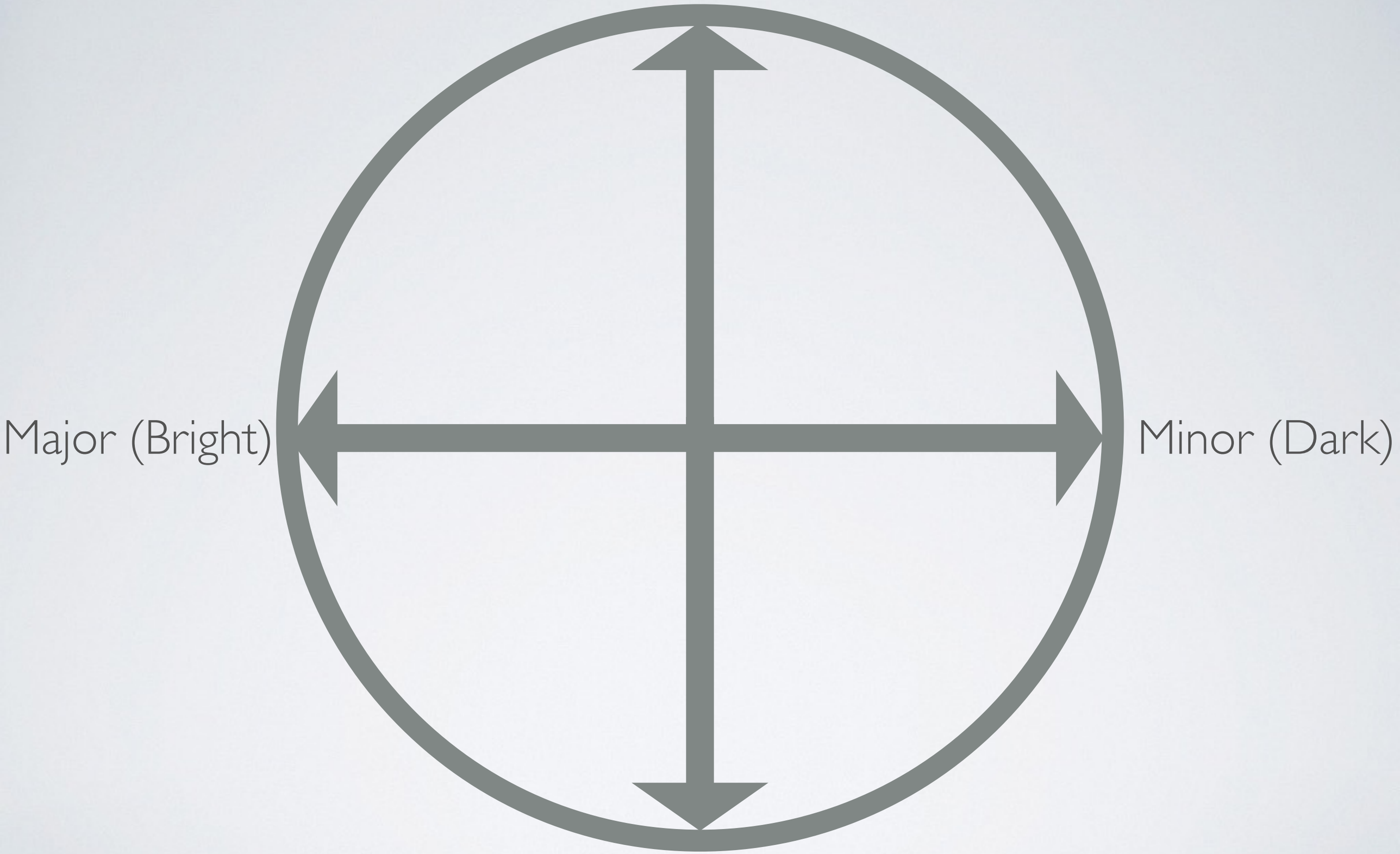
Exercise | Sequence

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

- Chordal Values
  - Simple intervals | intervals that span 8 scale steps and under
    - prime/unison, second, third, fourth, fifth, sixth, seventh and octave
  - Compound intervals | intervals that span more than 8 steps
    - ninth (compound second), tenth (compound third) …

Consonant (Peaceful)



Major (Bright)

Minor (Dark)

Dissonant (Tense)

Table 2.1 Perceived Correlation between Emotions and Interval Harmonies

Interval	Notes	Emotion
Unison	C/C	Pleasing, peace
Octave	C/C	Pleasing, peace
Perfect fifth	C/G	Joy, triumph, courage
Perfect fourth	C/F	Excitement, contentment
Major third	C/E	Harmony, peace, joy
Minor sixth	C/Ab	Harshness, meanness, confusion
Minor third	C/Eb	Sadness, sorrow, annoyance, gloominess
Major sixth	C/A	Sweet, enjoyable, pleasing
Major second	C/D	Sadness, strangeness, tension
Minor seventh	C/Bb	Sadness, dismay, sorrow
Minor second	C/Db	Harshness, sinister, confusion, shock
Major seventh	C/B	Surprise, suspicion
Augmented fourth	C/F#	Suspense, shock, sorrow

Alex Carlin, Music Producer

The Interval. Harmony for Computer Musicians

INTERACTIVE MUSIC

- Improvisational Construction: Variation and Form
- Real-Time Composition and Arranging
- Performance-Based Dynamics and Tempo Changes
- Experimental Composition Techniques
- Instrumental Design and User Interactive Performance

Questions

In your five songs per week, identify the harmonic intervals in four measures.

Code that into Sonic-PI and upload into your week2/name/ in Github

“@aisis” if you have any questions