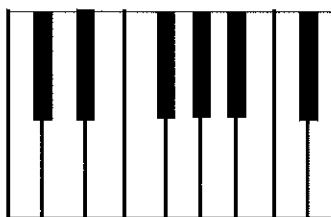


Week 1

I. Piano Keyboard



C D E F G A B C

- a. White Keys are “natural notes”
- b. Black Keys are sharps and flats

II. Sharps/ Flats/ Enharmonics

- a. **Half Step** – moving to the next note on the keyboard without skipping a key (white to black, black to white)



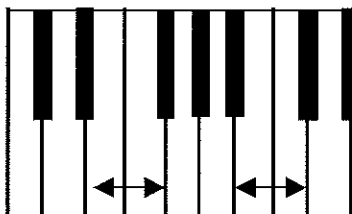
X X

- b. **Whole Step** – Skipping one key on the piano (white to white, black to black)



X X

- c. Natural half steps
 - i. There are two places that a half step naturally occurs on “natural” notes (E to F, B to C)



E F B C

- d. Double Sharps/ Flats

- i. **Double sharp (x)** – raise the note two half steps
- ii. **Double Flat (bb)** – lower the note two half steps
- e. **Enharmonics** – Different note names for the same pitch/ key
 - i. G# and Ab are the same key on the keyboard, thus enharmonic
 - ii. Fx and G are the same note on the keyboard, thus enharmonic
 - iii. **watch out for the natural half-steps! B# = C!**

III. Note Reading

- a. **Staff** – Five lines used to write notes/ pitches



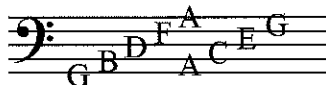
- b. **Clefs** – A symbol used to assign pitch names to a staff

- i. **Treble Clef** – tells where G is (curls around the G line)



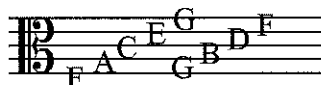
- 1. Lines = **Every Good Boy Does Fine**
- 2. Spaces = **FACE**

- ii. **Bass Clef** – tells where F is (F line is between dots)



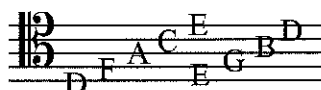
- 1. Lines = **Good Boys Deserve Fudge Always**
- 2. Spaces = **All Cows Eat Grass**

- iii. **Alto Clef** – tells where “Middle” C is (between the curves)



- 1. read as treble clef up a letter name

- iv. **Tenor Clef** – tells where “Middle” C is (between the curves)



- 1. read as treble clef down a letter name

- c. **Ledger Lines** – Temporary lines added to extend the staff upwards or downwards



- d. **Grand Staff** – Treble clef and Bass clef staff linked together by a bracket.
Used mainly by pianists.



IV. Pitch

- a. **Pitch** – A specific frequency that is given a letter name in the musical alphabet (i.e. – 440Hz = A)
- b. **Pitch Class** – All frequencies that have a 1:2 or 2:1 ratio of frequencies. All have the same letter name (i.e. – 110Hz, 220Hz, 440Hz, 880Hz, etc. = A)

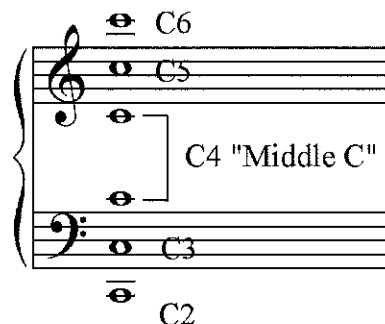
- c. **Pitch Collection** – A grouping of pitches
- i. **Chromatic Collection** – A collection based on Half steps with no identifiable key



- ii. **Diatonic Collection** – A collection based on a system of Whole and half steps that belongs to a key



- d. **Registers** – a numbering system to assign an octave to a pitch.
- i. **“Middle” C** – If you were to add a line between the treble and bass clef on the Grand Staff, it would be C (1 ledger line above bass, 1 ledger line below treble).
 1. Middle C = C4



V. Scales

- a. **Scale** – an ordered collection based on a pattern of whole steps and half steps that begins and ends on the same pitch class



- b. **Scale Degrees** – each note of scale is given a number with a carat (^) over it



- c. **Scale Degree Names**

- i. 1 – Tonic
 - ii. 2 – Super Tonic
 - iii. 3 – Mediant
 - iv. 4 – Sub-dominant
 - v. 5 – Dominant
 - vi. 6 – Sub-Mediant
 - vii. 7 – Leading Tone
- d. **Tetrachord** – a four note collection based on a pattern of whole steps and half steps
- e. **Major Tetrachord** – Tetrachord based on WWH

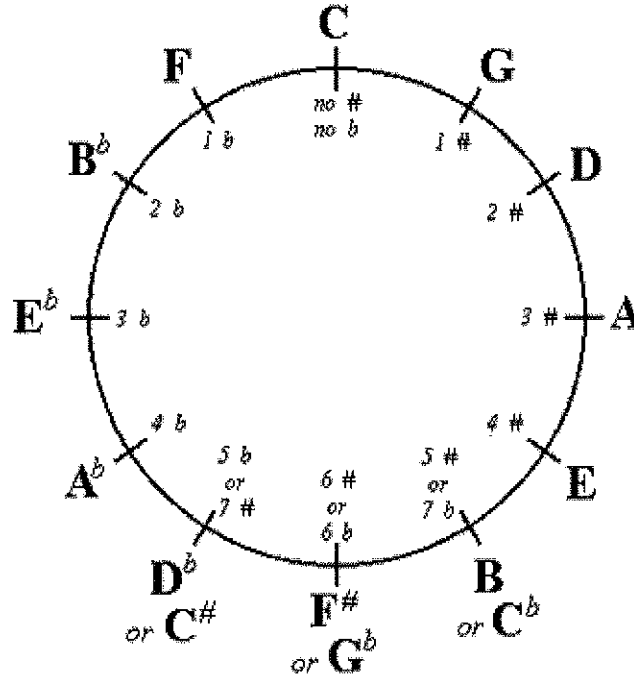


- f. **Major Scale** – two major tetrachords separated by a whole step



VI. Key

- a. **Key** – A scale that a melody is based on (i.e. key of A major)
- b. **Circle of Fifths** – a cycle of keys that adds a sharp as you move clockwise or adds a flat if you move counter-clockwise (circle of fourths)



- c. **Key signature** – a series of sharps or flats next to the clef that denotes the scale to be used
 - i. Reading
 1. Sharp keys – Name of key is half step above the last sharp
 2. Flat keys – Next to last flat is the name of the key
 3. Must memorize – C Major has no flats or sharps, F has one flat
 4. **All flat keys except F have flat in their name**
 - ii. Writing
 1. **Order of Sharps** – the order in which sharps are written in a key signature

a. **Five Cats Go Down Alleys Eating Broccoli**



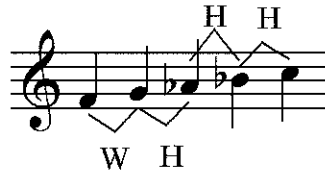
2. **Order of Flats** – reverse the order of sharps



Week 2

I. **Minor Keys**

a. **Minor** – Based on a minor pentachord (WHWW)



i. Major pentachord with lowered 3rd

b. **Minor Modes** – versions of the minor scale, share pentachord

i. **Natural Minor** – lowered 6th and 7th scale degree



ii. **Harmonic Minor** – lowered 6th scale degree



iii. **Melodic Minor** – major 6th and 7th going up, natural minor going down.



1. contains the leading tone for melodic purposes, avoids A2nd with major 6th

iv. **Minor Scale Degree Names**

1. **Sub-Tonic** – lowered 7th SD

2. **Raised Sub-Mediant** – major 6th in a minor scale

c. **Parallel Minor** – Same Tonic, different key signature



A Major

a minor

i. Major Key signature – 3 sharps = Parallel minor Key Signature

ii. Major Key Signature – 3 flats = Parallel minor key signature

- d. **Relative Minor** – same key signature, different tonic



- i. Relative minor = Major scale starting on 6th scale degree **or** down minor 3rd (3 Half Steps)

II. Diatonic Modes

- a. Use same pitch class as the major scale, just start in different places

- i. **Ionian** – Major scale



- ii. **Dorian** – Based off 2nd SD of Major scale, has minor 3rd



- iii. **Lydian** – Based off 3rd SD of Major Scale, has minor 3rd



- iv. **Phrygian** – Based off 4th SD of Major Scale, has major 3rd



- v. **Mixolydian** – Based off 5th SD of Major Scale, has major 3rd



- vi. **Aolian** – Based off 6th SD of Major Scale, Natural Minor



- vii. **Locrian** – Based of 7th SD of Major Scale, minor 3rd

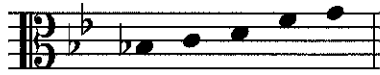


1. not an original “church” mode. Considered too dissonant for common practice, used in 20th century music

- b. Idiots Dance Like Purple Monkeys At Lollapalooza

III. **Pentatonic Scales**

- a. 5 note scales used to avoid dissonance
- b. **Major Pentatonic** – SD 1, 2, 3, 5, 6



- c. **Minor Pentatonic** – SD 1, 3, 4, 5, 7



IV. **Intervals**

- a. Refer to the distance between two pitches
- b. **Generic Intervals** – refer to the space between the letter name only
 - i. **Unison** – Same pitch



- ii. **2nd** – up one letter name



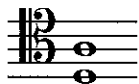
- iii. **3rd** – up two letter names



- iv. **4th** – up three letter names



- v. **5th** – up four letter names



- vi. **6th** – up five letter names



- vii. **7th** – up six letter names



- c. **Specific Intervals** – refer to a specific combination of half steps and whole steps
- i. Uses generic intervals plus the designation minor (m), Major (M), Augmented (A), Perfect (P), and diminished (d)
 - ii. **Perfect Intervals** – exist as the same interval in both the major and minor scale. These can never be major or minor.
 1. **PU** – 0 half steps, same letter, same register
 2. **P4** – 3 letter names, 2½ steps
 3. **P5** – 4 letter names, 3½ steps
 4. **P8/O** – Same letter name, one octave away, 6 steps
 - iii. **Major Intervals** – exist in the major scale
 1. **M2** – 1 letter name, 1 step
 2. **M3** – 2 letter names, 2 steps
 3. **M6** – 5 letter names, 4½ steps
 4. **M7** – 6 letter names, 5½ steps
 - iv. **Minor Intervals** – exist in the minor scale/ modes
 1. **m2** – 1 letter name, ½ step
 2. **m3** – 2 letter names, 1½ steps
 3. **m6** – 5 letter names, 4 steps
 4. **m7** – 6 letter names, 5 steps
 - v. **Augmented Intervals** – One half step above all Perfect and Major intervals
 1. **AU** – same letter name, ½ step
 2. **A2** – 1 letter name, 1½ steps
 3. **A3** – 2 letter names, 2½ steps
 4. **A4** – 3 letter names, 3 steps
 5. **A5** – 4 letter names, 4 steps
 6. **A6** – 5 letter names, 5 steps
 7. **A7** – 6 letter names, 6 steps
 8. **A8/O** – same letter name, one octave away, 6½ steps
 - vi. **Diminished Intervals** – One half step below all Perfect and minor intervals
 1. **dU** – same letter name, down ½ step
 2. **d2** – 1 letter name, 0 steps
 3. **d3** – 2 letter names, 1 step
 4. **d4** – 3 letter names, 2 steps
 5. **d5** – 4 letter names, 3 steps
 6. **d6** – 5 letter names, 3½ steps
 7. **d7** – 6 letter names, 4½ steps
 8. **d8/O** – same letter name, one octave away, 5½ steps
 - vii. **Tritone** – Another name for the A4/ d5
 1. bisects the octave, considered the most dissonant of all intervals
 2. outlawed by the early church as “The Devil In Music”

d. **Enharmonic Intervals**

- i. PU = d2
- ii. AU = m2
- iii. M2 = d3
- iv. A2 = m3
- v. M3 = d4
- vi. A3 = P4
- vii. A4 = d5 = TT
- viii. P5 = d6
- ix. A5 = m6
- x. M6 = d7
- xi. A6 = m7
- xii. M7 = d8
- xiii. A7 = P8

e. **Interval Inversion** – flipping intervals

- i. Interval inversions add up to nine (i.e. 6th + 3rd = 9)
 1. U(1) inverts to 8ve
 2. 2nd inverts to 7th
 3. 3rd inverts to 6th
 4. 4th inverts to 5th
- ii. specifics invert to its opposite
 1. M inverts to m
 2. A inverts to d
 3. P inverts to P

f. **Intervals over an Octave**

- i. Add seven to the generic interval
 1. 8ve + 2nd = 9th
 2. 8ve + 3rd = 10th
 3. 8ve + 4th = 11th
 4. 8ve + 5th = 12th
 5. 8ve + 6th = 13th
 6. 8ve + 7th = 14th

g. **Aural Identification**

- i. Use songs to help identify intervals
- ii. Can't tell the difference between enharmonic intervals
- iii. **Interval songs**
 1. m2 – Jaws
 2. M2 – Happy Birthday
 3. m3 – Mr. Clean
 4. M3 – When the Saints
 5. P4 – Her Comes the Bride
 6. TT – Maria (West Side Story)
 7. P5 – Star Wars
 8. m6 – Love Story
 9. M6 – NBC
 10. m7 – Star Trek
 11. M7 – 1st and 3rd note of Over The Rainbow
 12. P8 – Over the Rainbow