THIS FILE WAS CREATED ON MARCH 10, 2016!

HELLO!

THIS FILE IS A COLLECTION OF INDIVIDUAL SHEETS COVERING A BUNCH OF LESSONS ON MUSIC THEORY.

> IT'S NOT A **BOOK...** YET. IT MIGHT BE SOMEDAY! BUT AS OF RIGHT NOW, IT'S **INCOMPLETE.**

> > THE TRUTH IS, THEY WEREN'T INTENDED TO BE A SINGLE VOLUME WHEN I STARTED MAKING THEM... THEY WERE JUST REVIEW SHEETS FOR MY OWN THEORY STUDENTS.

BUT THE MORE I **MADE**, THE MORE I REALIZED THEY COULD BE COLLECTED INTO A **TEXTBOOK OF SORTS...** EVENTUALLY!

> I STILL HAVE A LOT OF WORK TO DO, BUT I'VE COLLECTED THE ONES I'VE MADE SO FAR INTO A SINGLE DOCUMENT TO MAKE IT EASIER FOR THE FOLKS WHO WANTED THEM ALL... BUT DIDN'T WANT TO DOWNLOAD EVERY FILE INDIVIDUALLY!

SO UNDERSTAND IT'S A WORK IN PROGRESS... THE PROGRESS IS SLOW SOMETIMES, BECAUSE I TEACH MUSIC THEORY AND AURAL SKILLS DURING THE DAY AT THE UNIVERSITY OF DAYTON IN DAYTON, OHIO, AND THEN HEAD HOME TO SPEND TIME WITH MY WIFE AND SIX KIDS!

SO IF YOU'VE BEEN SENT THIS FILE BY SOMEONE, KNOW THAT THERE MIGHT BE A **NEWER VERSION** -OR **MORE PAGES** -AT **TOBYRUSH-COM-**

RUSH

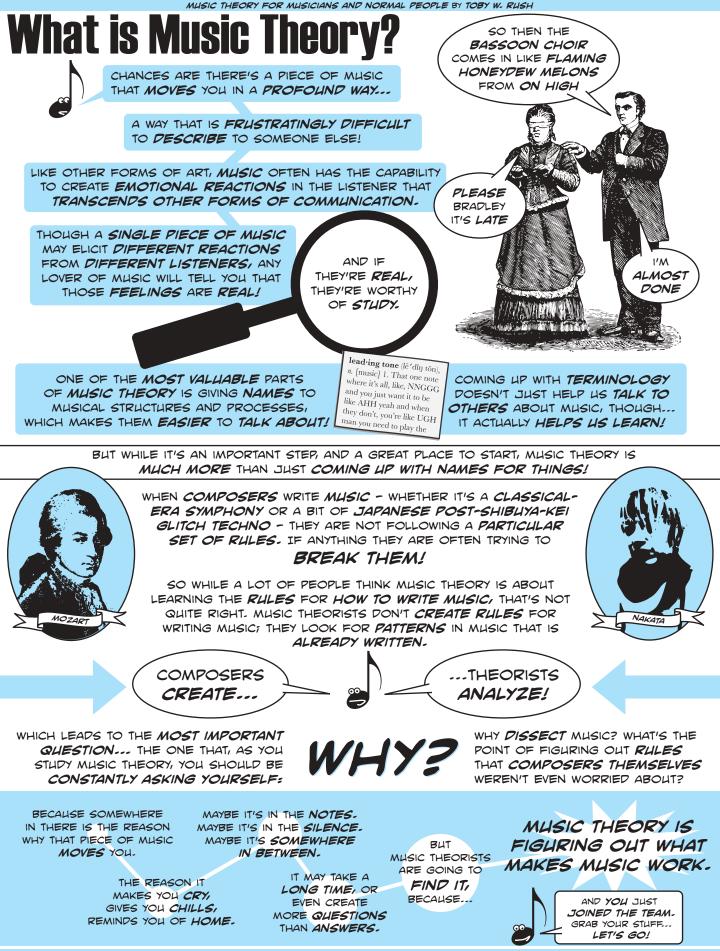
BUT IF YOU LIKE THIS, OR FIND IT USEFUL, GREAT! FEEL FREE TO SHARE IT, COPY IT, AND USE IT.

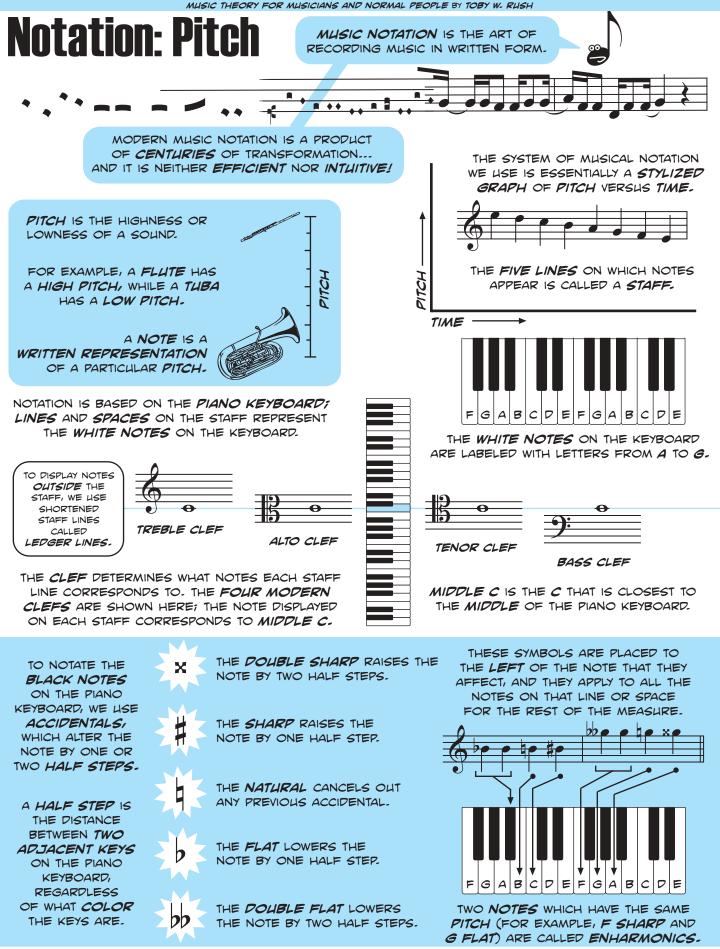
JUST DON'T SELL IT, CHANGE IT, OR TELL OTHERS YOU MADE IT!\*

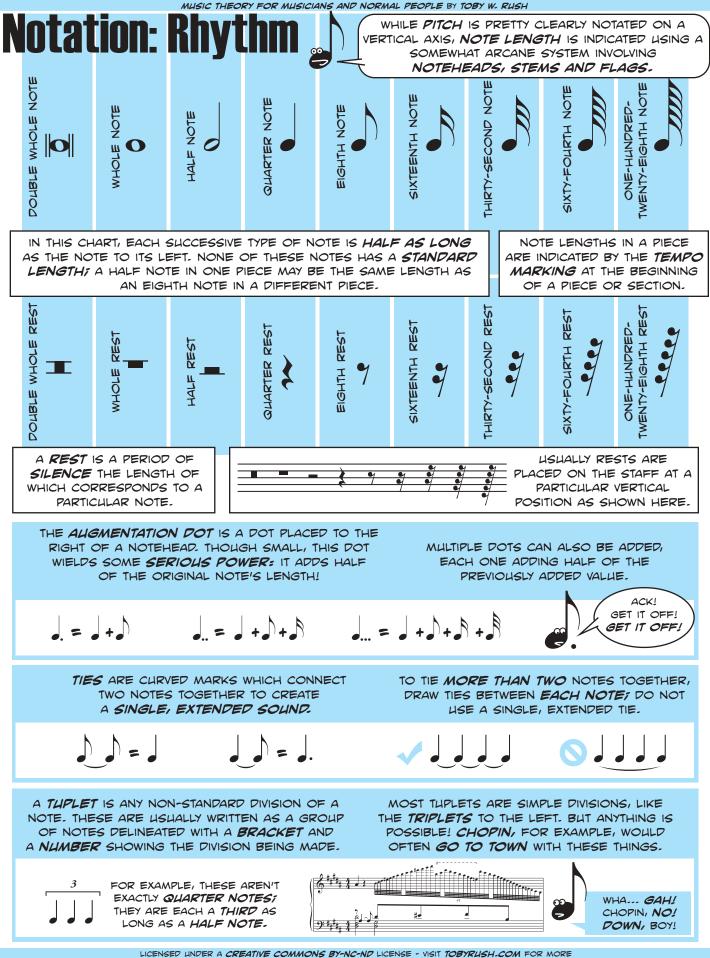


\*FOR MORE INFO, SEE HTTP://CREATIVECOMMONS.ORG/LICENSES/BY-NC-ND/4.0/

NOW LET'S LEARN SOME MUSIC THEORY!







MUSIC THEORY FOR MUSICIANS AND NORMAL PEOPLE BY TOBY W. RUSH **Notation: Meter** A FUNDAMENTAL FEATURE OF MOST PIECES OF MUSIC IS A CONSISTENT RHYTHMIC PULSE. THIS PULSE IS CALLED THE BEAT, AND A SINGLE PULSE IS CALLED A BEAT UNIT. THERE ARE TWO TYPES OF BEAT UNITS: ... AND THOSE CONTAINING THOSE CONTAINING TWO DIVISIONS, THREE DIVISIONS, CALLED SIMPLE BEAT UNITS ... CALLED COMPOUND BEAT UNITS. IN MUSIC, BEATS ARE ORGANIZED INTO PATTERNS OF ACCENTED AND UNACCENTED BEAT UNITS. IN FACT, IF YOU LISTEN TO A SEQUENCE OF REPEATED NOTES, YOUR BRAIN WILL PROBABLY START TO PERCEIVE THE NOTES AS GROUPS OF TWO, THREE, OR FOUR, EVEN IF NO ACCENTS ARE PRESENT! >>>

> THESE GROUPS ARE CALLED **MEASURES**, L BARLINE AND THEY ARE DELINEATED WITH **BARLINES**.

MEASURE

THE ORGANIZATION OF BEAT UNITS AND MEASURES IN A PIECE IS CALLED **METER.** METER IS DESCRIBED BY TWO NUMBERS PLACED AT THE BEGINNING OF THE PIECE: THE **TIME SIGNATURE.** 

### SIMPLE TIME SIGNATURES ARE EASY.

**3** ◀ 4 ◀

THE TOP NUMBER INDICATES THE **NUMBER OF BEATS** IN A MEASURE.

THE BOTTOM NUMBER INDICATES THE **TYPE OF NOTE** WHICH SERVES AS THE **BEAT UNIT.** 



THE CODE FOR THE BOTTOM NOTE IS PRETTY EASY: 4 REFERS TO A QUARTER NOTE, 8 TO AN EIGHTH NOTE, 16 TO A SIXTEENTH NOTE, AND SO ON.

COMPOUND TIME SIGNATURES ARE KIND OF LYING TO YOU.

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THE TOP NUMBER INDICATES THE NUMBER OF DIVISIONS IN A MEASURE. TO GET THE NUMBER OF BEATS, DIVIDE IT BY THREE.

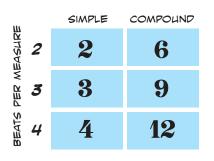
THE BOTTOM NUMBER INDICATES THE **TYPE OF NOTE** WHICH SERVES AS THE **DIVISION.** TO GET THE **BEAT UNIT.** USE THE NOTE THAT IS EQUAL TO **THREE** OF THESE NOTES. IN A COMPOUND METER, THE BEAT UNIT IS ALWAYS A **DOTTED NOTE!** 



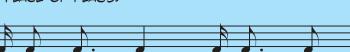
IN FACT, WOULDN'T **THIS** BE AN EASIER WAY TO NOTATE COMPOUND METERS?

SORRY ... THE MAN SAYS YOU HAVE TO DO IT THE OTHER WAY

BY LOOKING AT THE **TOP NUMBER** OF THE TIME SIGNATURE, YOU CAN TELL **TWO** THINGS ABOUT THE METER: WHETHER IT'S **SIMPLE** OR **COMPOUND**, AND HOW MANY **BEATS** ARE IN A **MEASURE**.

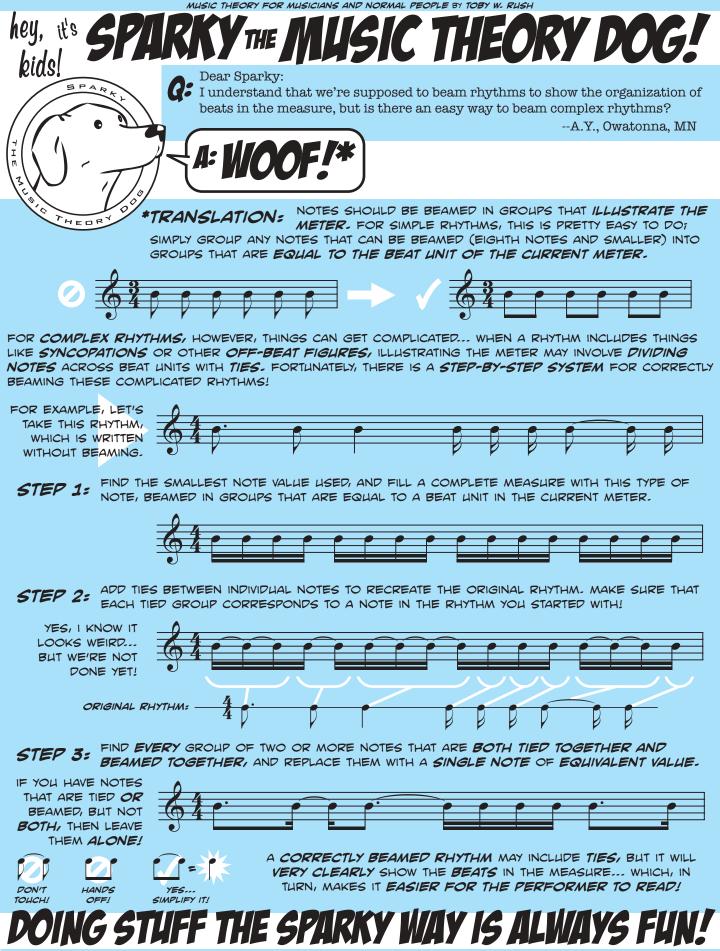


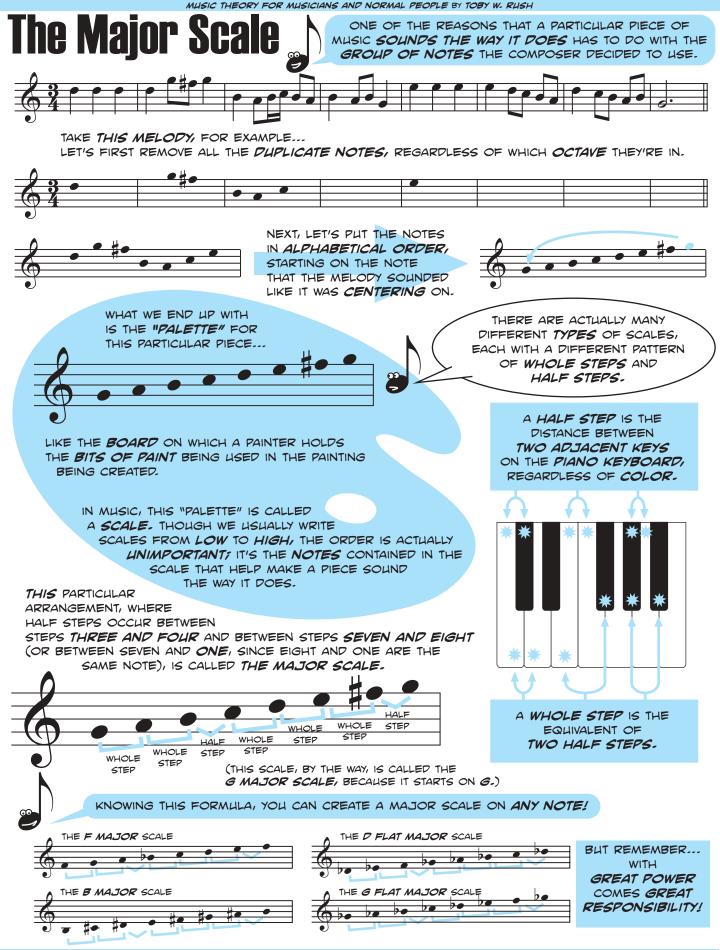
NOTES THAT HAVE **FLAGS** CAN BE GROUPED TOGETHER BY USING **BEAMS** IN PLACE OF FLAGS.



HOWEVER, BEAMING IS ONLY USED TO GROUP NOTES WITHIN BEATS. FOR THE MOST PART, YOU SHOULDN'T BEAM NOTES BETWEEN BEATS, NOR SHOULD YOU TIE NOTES WITHIN BEATS.









IF YOU START WRITING **MAJOR** SCALES AND PAY ATTENTION TO THE ACCIDENTALS THAT OCCUR, YOU ARE GOING TO START NOTICING A PATTERN...

FOR EXAMPLE LOOK AT THE FLAT KEYS, STARTING WITH THE KEY THAT HAS **ONE FLAT**, ALL THE WAY THROUGH THE KEY WITH **SEVEN FLATS:** THE FLATS ACCRUE IN A **SPECIFIC ORDER**. SAME WITH THE **SHARP KEYS!** 

SO IF YOU LOOK FOR A KEY THAT HAS ONLY A *D FLAT*, YOU WON'T FIND IT: IF A KEY HAS A *D FLAT*, IT MUST ALSO HAVE A *B FLAT*, *AN E FLAT* AND AN *A FLAT*!

SINCE WRITING AN ENTIRE PIECE IN C SHARP MAJOR WOULD HAVE BEEN A SURE-FIRE WAY TO GET CARPAL TUNNEL SYNDROME WITH ALL THE SHARPS INVOLVED, COMPOSERS PRETTY QUICKLY CAME UP WITH A WAY TO SIMPLIFY THINGS: KEY SIGNATURES.

A KEY SIGNATURE IS A GROUP OF ACCIDENTALS PLACED AT THE BEGINNING OF EVERY LINE OF MUSIC, JUST TO THE RIGHT OF THE CLEF, THAT INSTRUCTS THE PERFORMER TO APPLY THOSE ACCIDENTALS TO EVERY CORRESPONDING NOTE IN THE PIECE UNLESS SPECIFIED OTHERWISE.

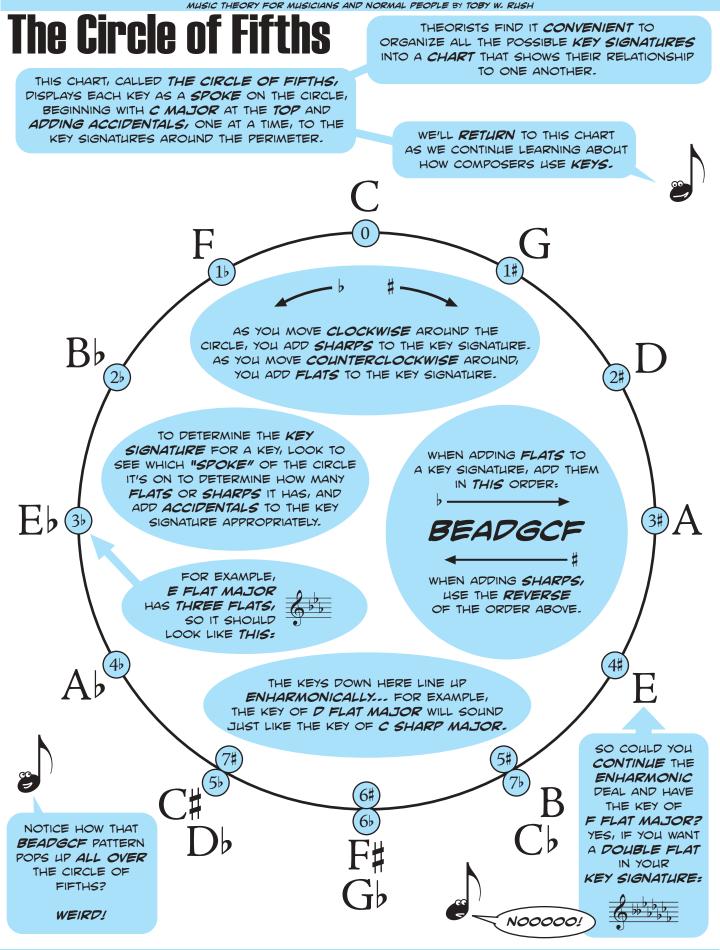


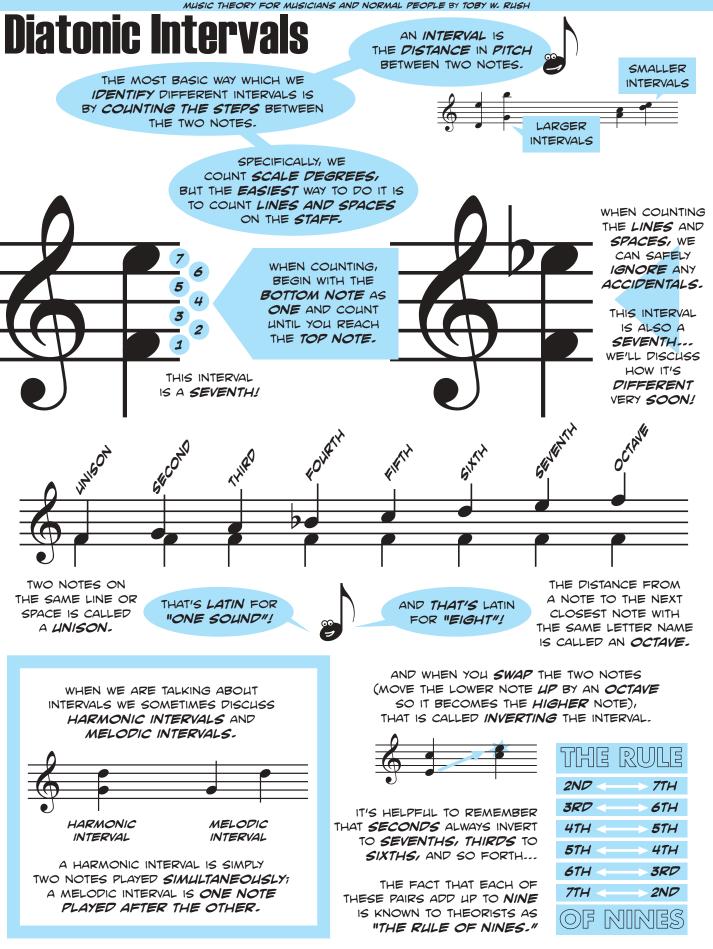
FOR EXAMPLE, **THIS** KEY SIGNATURE INDICATES THAT EVERY **F**, **C**, AND **G** IN THE PIECE SHOULD BE **SHARPED**, **REGARDLESS OF OCTAVE!** 

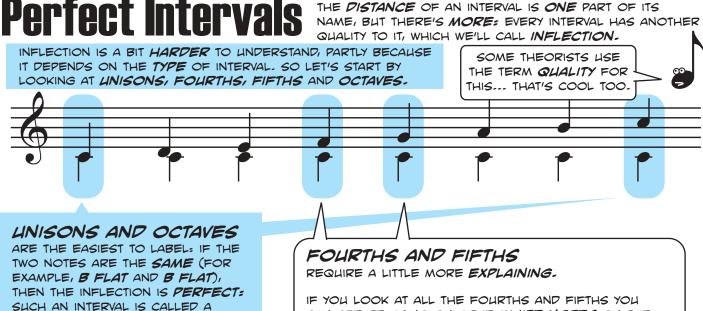
OH, AND ANOTHER THING: THE ACCIDENTALS HAVE TO BE PLACED IN THE CORRECT ORDER, AND THEY NEED TO FOLLOW A PARTICULAR PATTERN OF PLACEMENT THAT VARIES SLIGHTLY DEPENDING ON THE CLEF BEING USED! IF YOU DEVIATE FROM THIS, YOU, AS A COMPOSER, WILL BE MOCKED!

TENOR CLEF SHARPS! WHAT'S YOUR PROBLEM? YOU NEED TO CONFORM!









IF YOU LOOK AT ALL THE FOURTHS AND FIFTHS YOU CAN CREATE USING ONLY THE WHITE NOTES ON THE PIANO KEYBOARD (IN OTHER WORDS, USING ONLY NOTES WITHOUT ACCIDENTALS):

> EACH ONE IS **PERFECT** EXCEPT FOR THOSE WHICH USE **F** AND **B**!

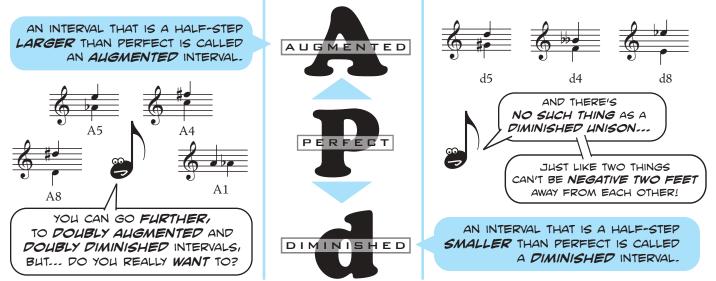
WAIT... WHY ARE THE **B** TO **F** INTERVALS **DIFFERENT?** 

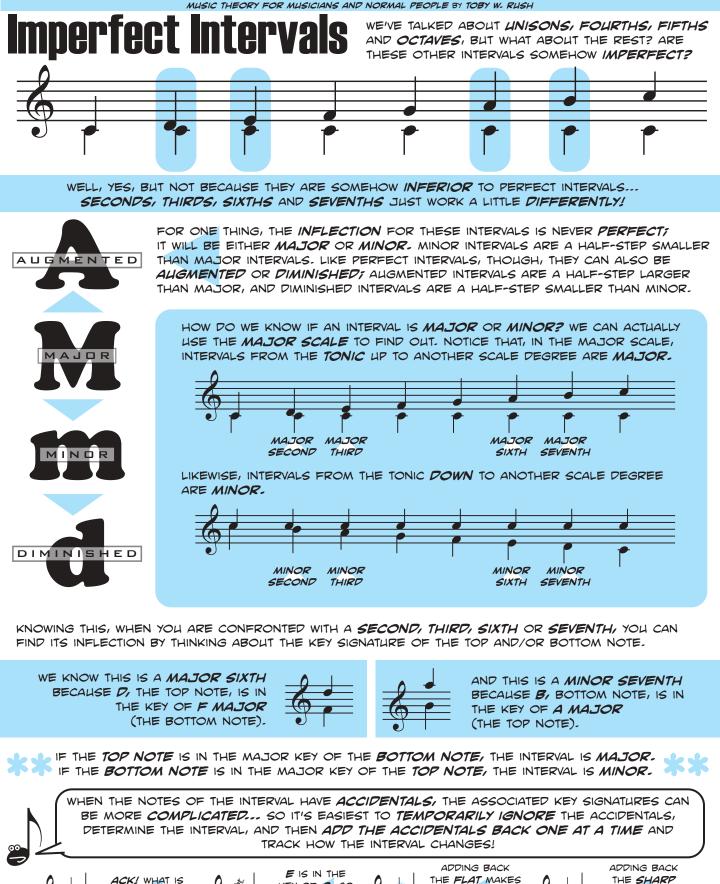
PERFECT LINISON OR A

PERFECT OCTAVE.

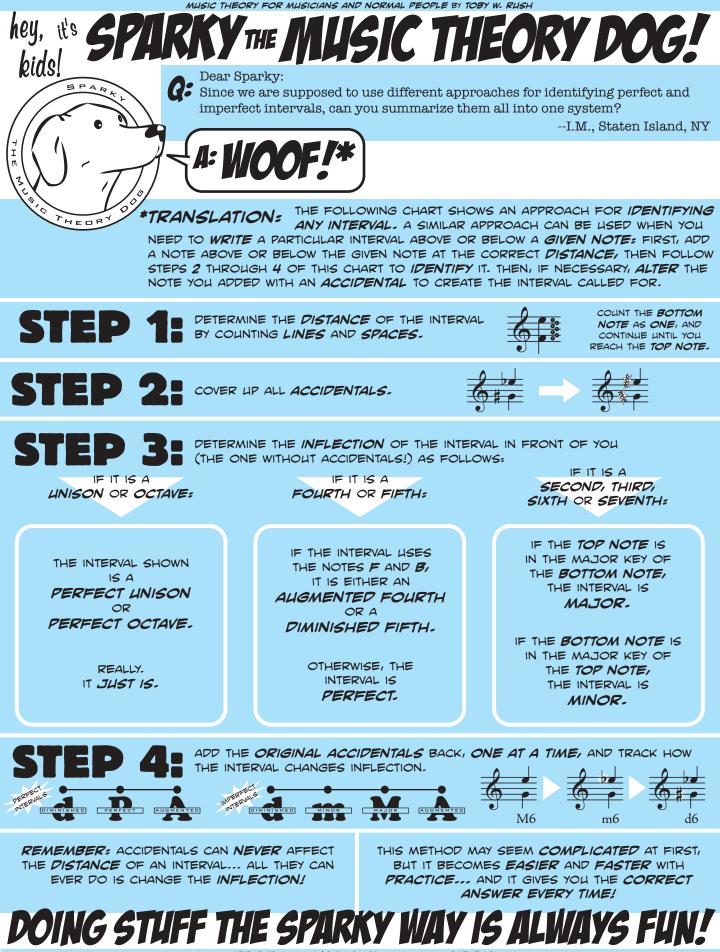
WELL, IF YOU WERE TO COUNT THE **HALF-STEPS** THAT MAKE UP EACH INTERVAL, YOU'D NOTICE THAT ALL THE OTHER ONES ARE **EQUAL IN SIZE,** BUT THE B TO F INTERVALS ARE NOT: F TO B IS A HALF-STEP **LARGER** THAN A PERFECT FOURTH, AND B TO F IS A HALF-STEP **SMALLER** THAN A PERFECT FIFTH.

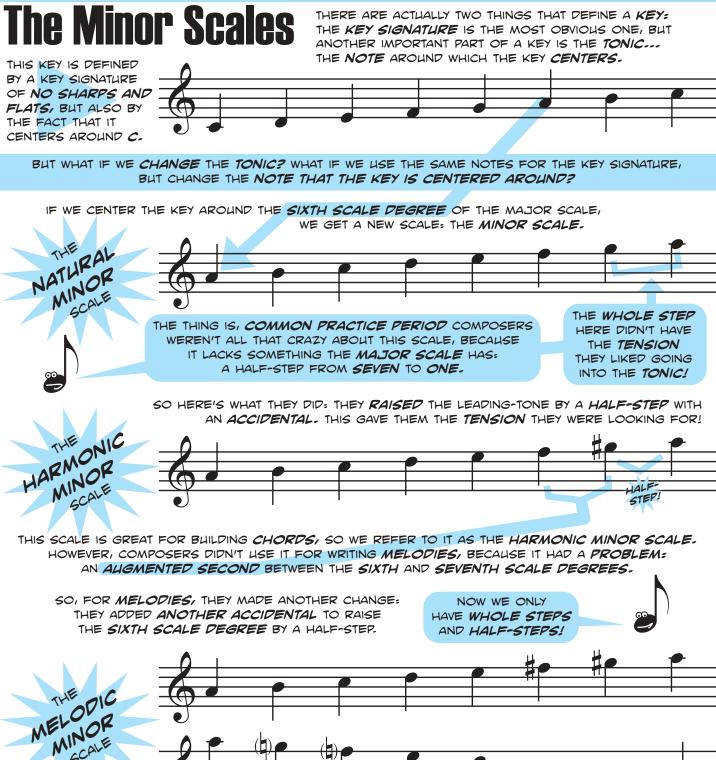
#### WHICH RAISES THE QUESTION: IF THE INTERVAL IS NOT PERFECT, THEN WHAT IS IT?





KEY OF G, SO 20 MAKES IT EVEN THAT? LET'S THE INTERVAL WE KNOW FIRST HIDE THE SMALLER, SO SMALLER .... THIS IS A IT'S NOW A A DIMINISHED ACCIDENTALS ... MAJOR SIXTH. MINOR SIXTH ... SIXTH! M6 m6 d6

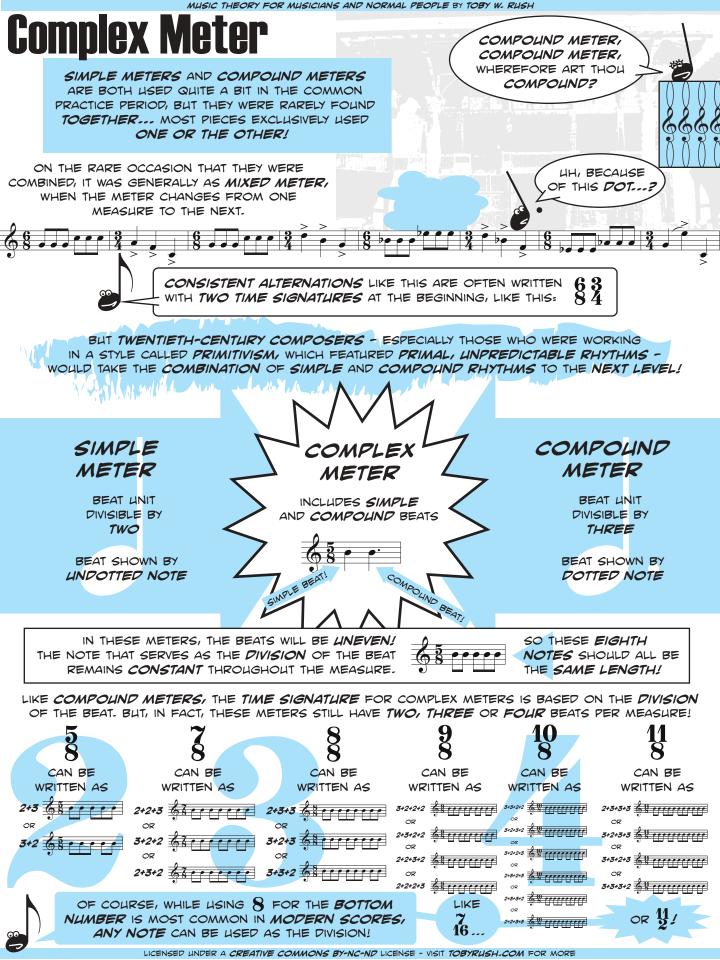


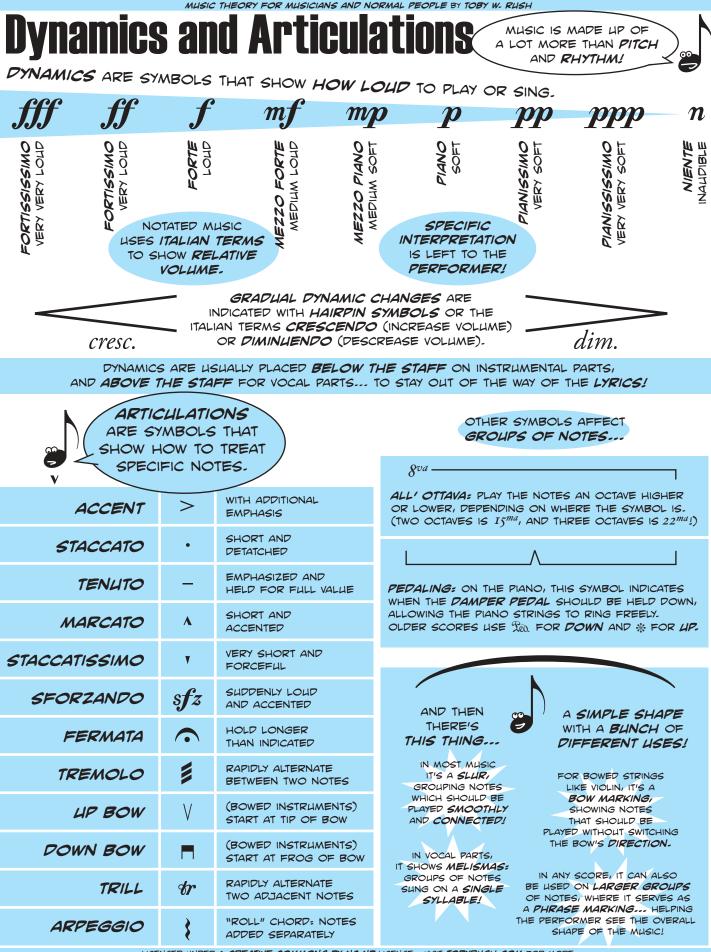


NOW, REMEMBER ... THE REASON WE RAISED THE LEADING TONE IN THE FIRST PLACE WAS TO CREATE TENSION FROM THE SEVENTH SCALE DEGREE TO TONIC. BUT IN A MELODY, IF THE SEVENTH SCALE DEGREE IS FOLLOWED BY THE SIXTH SCALE DEGREE, WE DON'T NEED THAT TENSION, SO WE DON'T NEED TO RAISE THE LEADING-TONE AT ALL.

SCALE

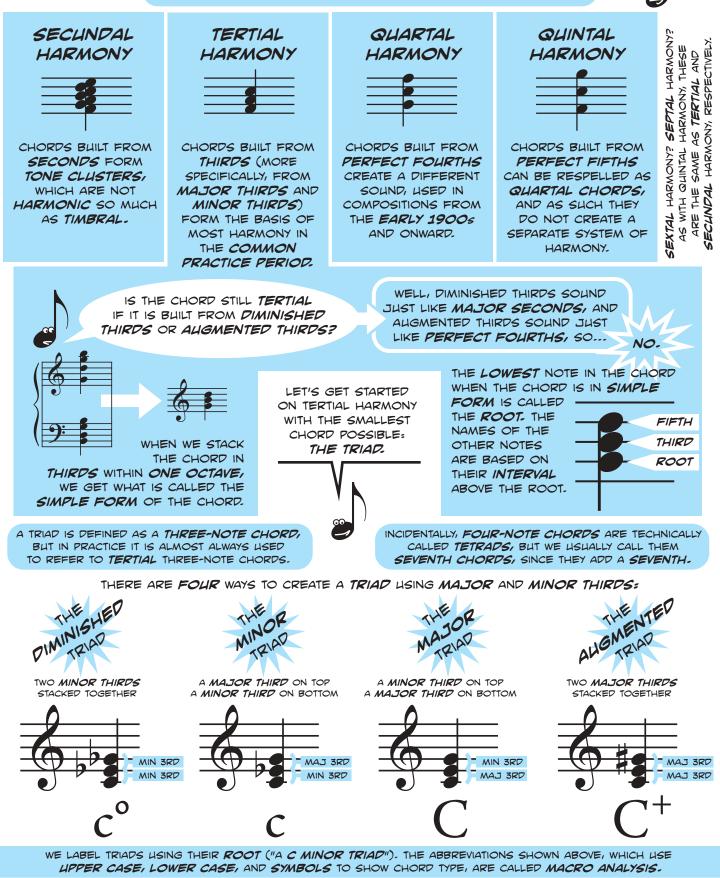
THE WAY WE ILLUSTRATE THIS IS BY DIFFERENTIATING BETWEEN ASCENDING MELODIC MINOR AND **DESCENDING MELODIC MINOR;** FOR DESCENDING MELODIC MINOR, WE DON'T RAISE ANYTHING!







ALTHOUGH A CHORD IS TECHNICALLY ANY COMBINATION OF NOTES PLAYED SIMULTANEOUSLY, IN MUSIC THEORY WE USUALLY DEFINE CHORDS AS THE COMBINATION OF THREE OR MORE NOTES.



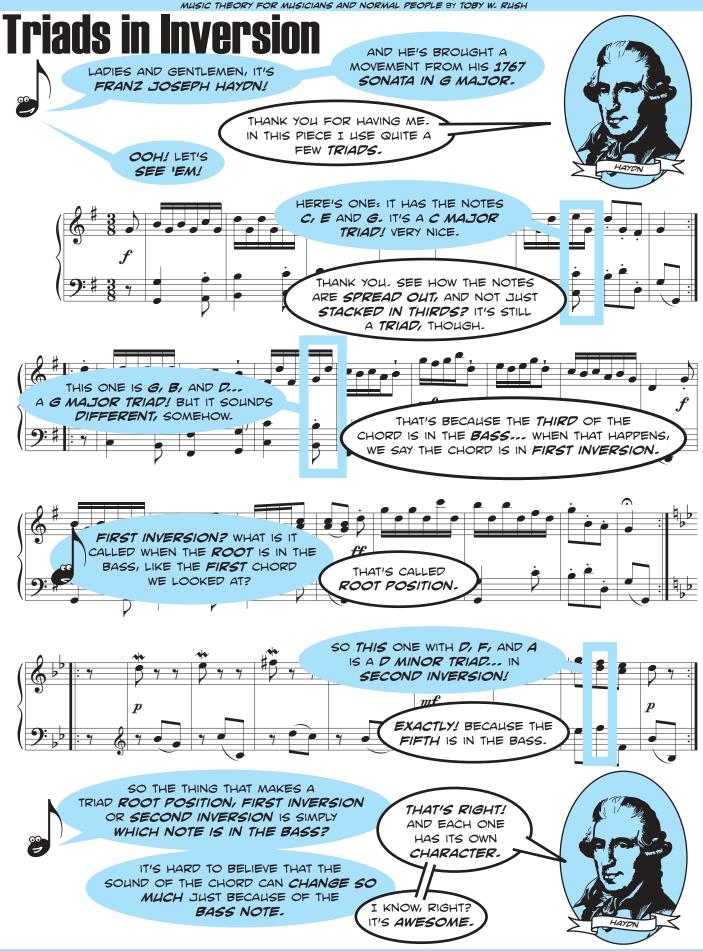






Figure 1. The Basso Continuo

THE NUMBERS AND SYMBOLS PRINTED BELOW THE BASSO CONTINUO PART ARE CALLED THE FIGURED BASS. SO HOW DO YOU TURN FIGURED BASS INTO CHORDS? MUSICAL WORKS WRITTEN IN THE **BAROQUE ERA** WOULD OFTEN INCLUDE A PART CALLED THE **BASSO CONTINUO** WHICH WOULD CONSIST OF A **SINGLE BASS CLEF MELODIC LINE** WITH VARIOUS **NUMBERS** AND **ACCIDENTALS** PRINTED BENEATH THE NOTES.

NO, NO, NO... THERE WASN'T AN ACTUAL INSTRUMENT CALLED A BASSO CONTINUO! THE PART WAS PLAYED BY TWO INSTRUMENTS: A BASS CLEF INSTRUMENT LIKE CELLO OR BASSOON, AND A KEYBOARD INSTRUMENT LIKE A HARPSICHORD.

IN PERFORMANCES, THE BASS CLEF INSTRUMENT WOULD SIMPLY PLAY THE GIVEN NOTES, BUT THE KEYBOARD PLAYER WOULD IMPROVISE A PART BASED ON THE NOTES AND THE SYMBOLS BELOW THE PART!



#### COULD BE PLAYED AS THIS!



FIRST OF ALL, IT'S IMPORTANT TO KNOW THAT THE NOTE GIVEN ON THE BASS CLEF PART IS ALWAYS THE BASS NOTE OF THE CHORD. AND REMEMBER: THE BASS IS NOT NECESSARILY THE ROOT!

SECOND, THE **NUMBERS** REPRESENT INTERVALS ABOVE THE **BASS**, EVEN THOUGH SOME NUMBERS ARE USUALLY LEFT OUT.

NOTE THAT THE INTERVALS ARE ALWAYS **DIATONIC.** DON'T WORRY ABOUT **INFLECTION...** JUST USE THE NOTES FROM THE **KEY SIGNATURE!** 



IF THERE ARE **NO NUMBERS**, ADD A **THIRD** AND A **FIFTH** ABOVE THE BASS... YOU GET A **ROOT POSITION TRIAD!** 



A SIX BY ITSELF INDICATES A SIXTH AND A THIRD ABOVE THE BASS, WHICH CREATES A FIRST INVERSION TRIAD!



A SIX AND A FOUR INDICATE A SIXTH AND A FOURTH ABOVE THE BASS, GIVING YOU A SECOND INVERSION TRIAD!

#6 \$6 HERE, THE SHARP HERE, THERE IS NO NOTE THAT THERE IS APPLIES TO THE NUMBER NEXT TO THE A NATURAL, NOT A FLAT, SIXTH ABOVE THE SHARP, SO WE APPLY NEXT TO THE SIX ... BASS, SO WE ADD A IT TO THE THIRD ABOVE IF IT WERE A FLAT, WE SHARP TO THE G. WOULD WRITE A C FLAT. THE BASS NOTE.

LASTLY, ACCIDENTALS ARE APPLIED TO THE INTERVAL THEY APPEAR WITH. IF YOU HAVE AN ACCIDENTAL BY ITSELF, IT APPLIES TO THE THIRD ABOVE THE BASS.

DON'T OVERTHINK THESE: IF THE COMPOSER WANTS A NOTE RAISED BY A HALF-STEP AND IT'S FLATTED IN THE KEY SIGNATURE, THE FIGURED BASS WILL HAVE A NATURAL, NOT A SHARP.

BY THE TIME THE CLASSICAL PERIOD GOT GOING, COMPOSERS STOPPED INCLUDING A BASSO CONTINUO PART, AND SO FIGURED BASS FELL OUT OF USE... WITH ONLY ONE EXCEPTION: MUSIC THEORY CLASSES!



**REALIZING** FIGURED BASS (WRITING CHORDS GIVEN A FIGURED BASS LINE) MAKES FOR AN **EXCELLENT EXERCISE** FOR STUDENTS TO LEARN HOW TO WRITE IN THE COMMON PRACTICE PERIOD STYLE! WOOO!

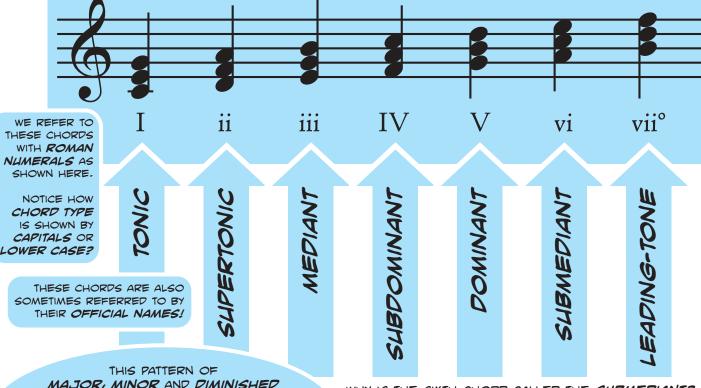


NOW THAT WE'RE FAMILIAR WITH HOW TRIADS WORK, IT'S TIME TO PUT THEM INTO THE CONTEXT OF A KEY.

SINCE WRITING MUSIC IN A PARTICULAR KEY MEANS USING THE NOTES IN THAT KEY SIGNATURE, IT STANDS TO REASON THAT MOST OF THE CHORDS WILL BE BUILT FROM THOSE SAME NOTES!

CHORDS WHICH USE NOTES FROM A PARTICULAR KEY SIGNATURE ARE SAID TO BE **DIATONIC** TO THAT KEY. DIATONIC MEANS **"FROM THE KEY..."** THAT MEANS **NO ACCIDENTALS!** 

WE CAN QUICKLY SHOW ALL THE **DIATONIC TRIADS** IN A PARTICULAR KEY BY WRITING A **SCALE** IN THAT KEY AND BUILDING **TRIADS** ON **EACH NOTE**, USING ONLY THE NOTES **IN THAT KEY.** 

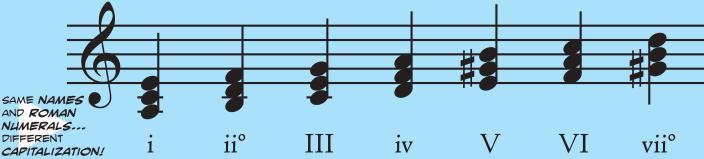


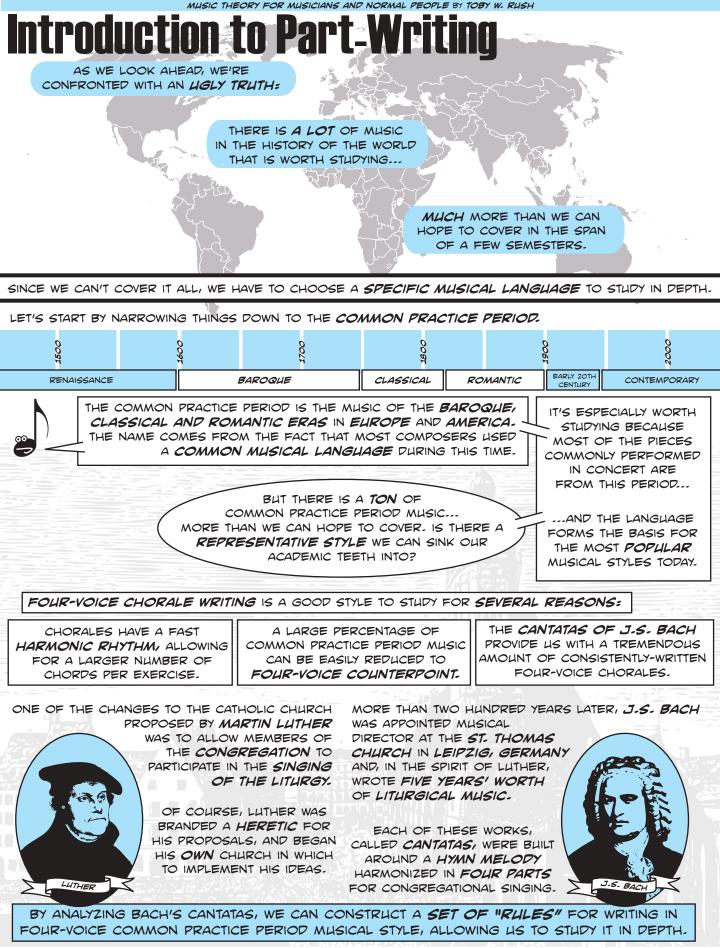
MAJOR, MINOR AND DIMINISHED TRIADS IS THE SAME IN EVERY MAJOR KEY! THE SUBDOMINANT TRIAD IS ALWAYS MAJOR, AND THE LEADING-TONE TRIAD IS ALWAYS DIMINISHED, WHETHER YOU'RE IN C MAJOR OR F SHARP MAJOR!

WHY IS THE SIXTH CHORD CALLED THE **SUBMEDIANT?** WELL, JUST AS THE **MEDIANT** CHORD IS HALFWAY BETWEEN THE **TONIC** AND **DOMINANT** CHORDS, THE **SUBMEDIANT** CHORD IS HALFWAY BETWEEN THE **TONIC...** AND THE **SUBDOMINANT** A FIFTH **BELOW!** 

BECAUSE THE **DOMINANT** AND **LEADING-TONE** TRIADS BOTH HAVE A STRONG TENDENCY TO RESOLVE TO **TONIC**, WE SAY THEY HAVE A **"DOMINANT FUNCTION."** THE **SUBDOMINANT** AND **SUPERTONIC** CHORDS BOTH TEND TO RESOLVE TO THE **DOMINANT**, SO WE SAY THEY BOTH HAVE A **"SUBDOMINANT FUNCTION."** 

THE DIATONIC TRIADS IN **MINOR** WORK THE SAME WAY... SINCE WE'RE DEALING WITH **CHORDS**, WE USE THE **HARMONIC MINOR SCALE.** HOWEVER, IT'S IMPORTANT TO NOTE THAT COMMON PRACTICE PERIOD COMPOSERS **RAISED THE LEADING TONE** ONLY OVER **DOMINANT FUNCTION HARMONY**: THE **DOMINANT** AND **LEADING-TONE TRIADS**!





## Part-Writing: The Vertical Rules

TO BEST UNDERSTAND HOW COMMON PRACTICE PERIOD COMPOSERS WROTE MUSIC, WE ARE GOING TO LEARN HOW TO WRITE MUSIC USING THEIR MUSICAL STYLE.

SO THE PATTERNS WE SEE IN THEIR MUSIC, THE THINGS THEY CONSISTENTLY **DID** OR **DIDN'T DO,** ARE GOING TO BECOME **"RULES"** FOR US IN OUR WRITING.

SOPRANO

ALTO

TENOR

BASS

IT'S WRONG TO THINK THESE WERE "RULES" FOR THE COMPOSERS... THEY WERE JUST WRITING WHAT SOUNDED GOOD TO THEM.

NOR SHOULD WE TREAT THESE AS RULES FOR WRITING MUSIC IN **GENERAL...** EACH STYLE OF WRITING HAS ITS **OWN** SET OF PATTERNS, AND THUS ITS OWN **"RULEBOOK."** AS A COMPOSER, **YOU** GET TO WRITE **YOUR OWN RULES** FOR **YOUR OWN STYLE!** 

> WE'RE GOING TO START WITH THE VERTICAL RULES... THAT IS, THE RULES THAT PERTAIN TO BUILDING A SINGLE CHORD IN FOUR-VOICE HARMONY.

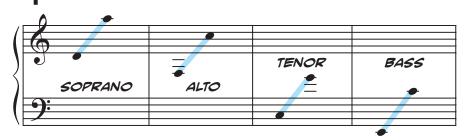
FIRST, THE DISTANCE BETWEEN SOPRANO AND ALTO AND BETWEEN ALTO AND TENOR MUST BE AN OCTAVE OR LESS.

THE TENOR AND BASS CAN BE AS FAR APART AS YOU WANT!

SECOND, THE VOICES MUST BE KEPT IN THEIR **PROPER ORDER**; FOR EXAMPLE, THE **TENOR** SHOULDN'T BE **HIGHER** THAN THE **ALTO.** (BACH DID THIS NOW AND THEN, BUT IT WAS ONLY WHEN HE WANTED TO INCORPORATE SOME **SPECIAL MELODIC SHAPES.**)

THIRD, SINCE WE HAVE FOUR VOICES AND ONLY THREE NOTES IN A TRIAD, ONE OF THE NOTES SHOULD BE DOUBLED. FOR TRIADS IN ROOT POSITION, WE TYPICALLY DOUBLE THE ROOT OF THE CHORD UNLESS FORCED (BY OTHER RULES) TO DO OTHERWISE.

LASTLY, EACH VOICE SHOULD STAY IN ITS **RANGE.** THESE ARE **CONSERVATIVE** RANGES FOR **MODERN SINGERS**, BUT REMEMBER THAT BACH'S CHORALES WERE REALLY WRITTEN FOR **AMATEURS**: THE **COMMON PEOPLE** WHO ATTENDED **CHURCH** IN **LEIPZIG!** 

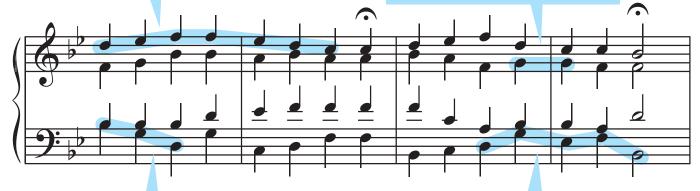


Part-Writing: The Horizontal Rules

THE **SUPREME GOAL** OF PART-WRITING IS **GOOD VOICE LEADING**... MAKING EACH INDIVIDUAL VOICE PART **EASY TO SING** BY AVOIDING **AWKWARD INTERVALS** OR **LARGE LEAPS!** 

> BEFORE WE GET TO THE SPECIFIC **DOS** AND **DON'TS**, LET'S TAKE A LOOK AT SOME **IMPORTANT CHARACTERISTICS** OF FOUR-VOICE PART-WRITING:

NOTE HOW EACH VOICE MOVES AS LITTLE AS POSSIBLE, GOING TO THE NEAREST CHORD TONE IN EACH SUBSEQUENT CHORD! IN SOME CASES, THE VOICE CAN SIMPLY STAY ON THE SAME NOTE. THIS IS CALLED KEEPING THE COMMON TONE, AND IT'S ALWAYS COOL!



IT'S COMMON FOR THE BASS TO MOVE IN THE OPPOSITE DIRECTION OF THE UPPER THREE VOICES. THIS IS CALLED CONTRARY MOTION AND IT HELPS MAINTAIN VOICE INDEPENDENCE.

VOICE INDEPENDENCE?

THE BASS LINE, SINCE IT PROVIDES THE FOUNDATION OF THE HARMONY IN EACH CHORD, TENDS TO INCLUDE LARGER LEAPS THAN THE OTHER THREE VOICES, BUT THAT'S OKAY.

FOUR-VOICE HARMONY IS A FORM OF **COUNTERPOINT**, WHICH IS THE COMBINATION OF **MORE THAN ONE MELODY** PLAYED SIMULTANEOUSLY. IN COUNTERPOINT, EACH VOICE IS **EQUALLY IMPORTANT**; NO VOICE IS GIVEN A ROLE OF ACCOMPANIMENT TO ANOTHER VOICE.

IN COUNTERPOINT, IT IS IMPORTANT FOR EACH VOICE TO BE INDEPENDENT; THAT IS, NO TWO VOICES SHOULD BE DOING THE EXACT SAME THING. IF TWO (OR MORE) VOICES WERE MOVING IN PARALLEL, THE RICHNESS OF THE TEXTURE WOULD BE REDUCED.

AS A RESULT, COMMON PRACTICE COMPOSERS WERE VERY CONSISTENT IN AVOIDING TWO OR MORE VOICES THAT MOVED IN PARALLEL PERFECT OCTAVES, PARALLEL PERFECT FIFTHS, OR PARALLEL PERFECT UNISONS!



THERE ARE ALSO A FEW OTHER RULES THAT APPLY TO THIS STYLE:

WHEN YOU HAVE THE LEADING TONE IN AN OUTER VOICE (SOPRANO OR BASS) IT MUST RESOLVE TO THE TONIC IN THE NEXT CHORD.

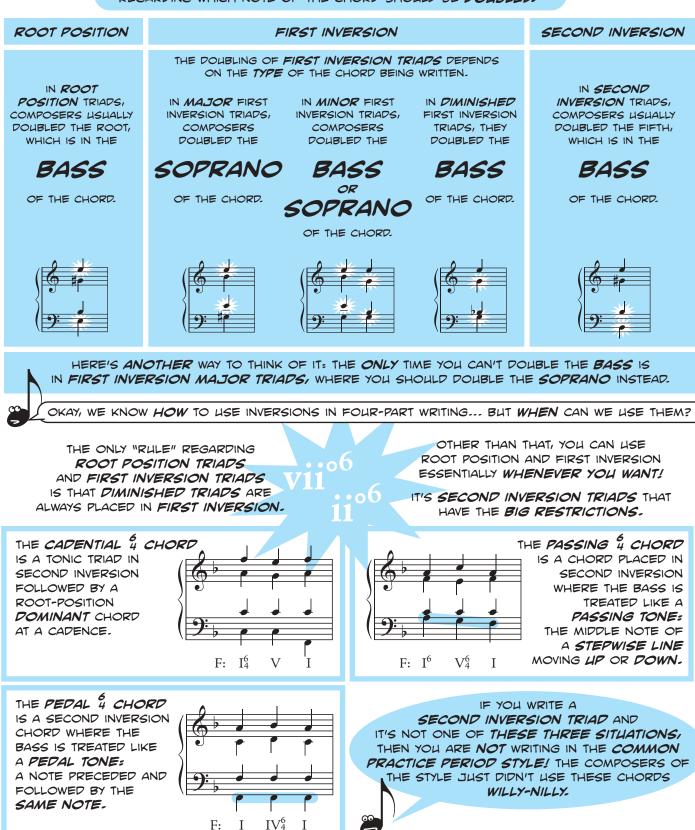
YOU MAY NOT MOVE ANY VOICE BY AN INTERVAL OF AN AUGMENTED SECOND OR AN AUGMENTED FOURTH.

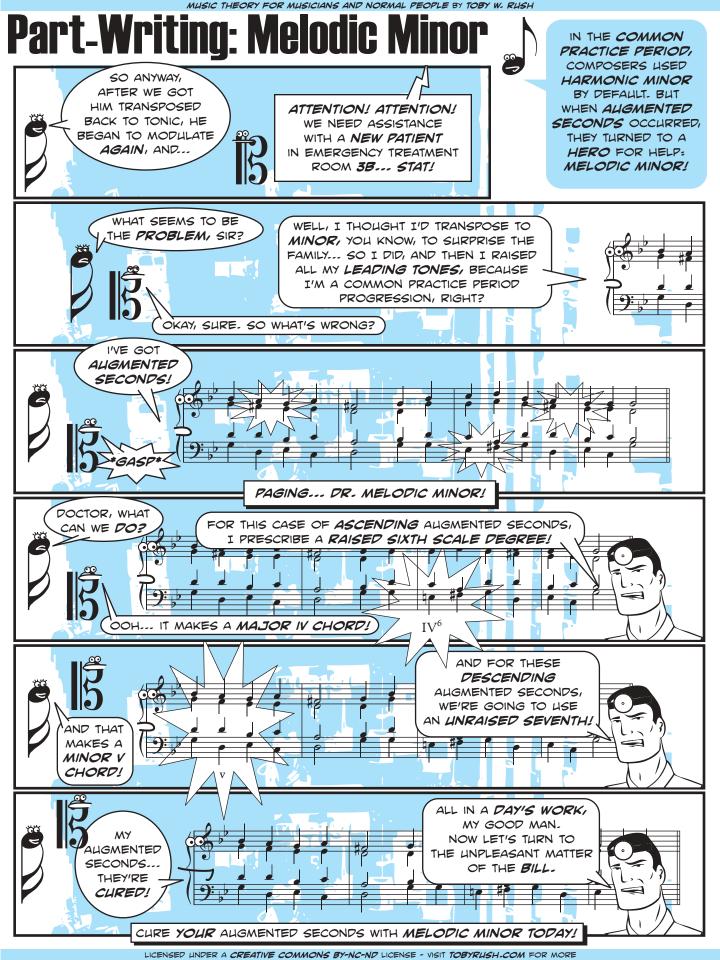


 KEEP THE COMMON TONE!
MOVE TO THE NEAREST CHORD TONE!
USE CONTRARY MOTION!

Part-Writing: Using Inversion

WHEN COMMON PRACTICE COMPOSERS USED **INVERTED CHORDS** IN FOUR-VOICE WRITING, THEY FOLLOWED SOME **GENERAL PATTERNS** REGARDING WHICH NOTE OF THE CHORD SHOULD BE **DOUBLED**.







A CAPENCE IS GENERALLY CONSIDERED TO BE THE LAST TWO CHORDS OF A PHRASE, SECTION OR PIECE. THERE ARE FOUR TYPES OF CADENCES, EACH WITH THEIR OWN SPECIFIC REQUIREMENTS AND VARIATIONS.

AN ALTHENTIC CADENCE CONSISTS OF A DOMINANT FUNCTION CHORD (V OR VII) MOVING TO TONIC.

TO BE CONSIDERED A **PERFECT AUTHENTIC CADENCE**, A CADENCE MUST MEET **ALL** OF THE FOLLOWING CRITERIA:



A PLAGAL CAPENCE CONSISTS OF A SUBPOMINANT FUNCTION CHORD (IV OR II) MOVING TO TONIC.

TO BE CONSIDERED A **PERFECT PLAGAL CADENCE**, A CADENCE MUST MEET **ALL** OF THE FOLLOWING CRITERIA:



A HALF CAPENCE IS ANY CADENCE THAT ENDS ON THE POMINANT CHORD (V).



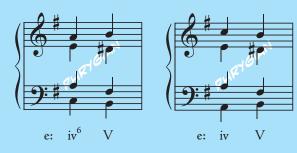
A SPECIFIC TYPE OF HALF CAPENCE IS THE **PHRYGIAN CAPENCE**, WHICH MUST MEET THE FOLLOWING CRITERIA:

IT OCCURS ONLY IN MINOR

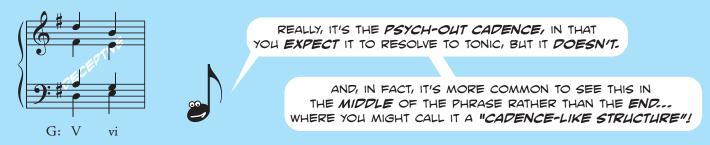
IT USES A IV CHORD MOVING TO V

THE SOPRANO AND BASS MOVE BY STEP IN CONTRARY MOTION

THE SOPRANO AND BASS BOTH END ON THE FIFTH SCALE DEGREE



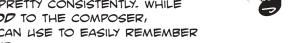
A DECEPTIVE CADENCE IS A CADENCE WHERE THE DOMINANT CHORD (V) RESOLVES TO SOMETHING OTHER THAN TONIC ... ALMOST ALWAYS THE SUBMEDIANT CHORD (VI).





HOW DID COMPOSERS OF THE COMMON PRACTICE PERIOD DECIDE WHICH ORDER TO PUT CHORDS IN? DID THEY JUST THROW THEM DOWN ON PAPER HAPHAZARDLY?

AS A MATTER OF FACT, THERE ARE CERTAIN CHORD PROGRESSIONS THAT APPEAR MORE FREQUENTLY, AND THERE ARE OTHERS THAT ARE AVOIDED PRETTY CONSISTENTLY. WHILE THE CHOICES WERE ALWAYS BASED ON WHAT SOUNDED GOOD TO THE COMPOSER, THEORISTS CAN FIND A PATTERN IN THEIR CHOICES THAT WE CAN USE TO EASILY REMEMBER WHICH CHORD PROGRESSIONS WORK AND WHICH ONES DON'T.



A TO B IS DOWN A SEVENTH,

WE INVERT IT TO UP A SECOND.

BUT SINCE OCTAVES DON'T MATTER,

ONE WAY TO UNDERSTAND THIS PATTERN IS TO THINK IN TERMS OF ROOT MOVEMENTS. A ROOT MOVEMENT IS THE BASIC INTERVAL BETWEEN THE ROOT OF ONE CHORD AND THE ROOT OF THE NEXT CHORD. YOU DON'T HAVE TO WORRY ABOUT THE INTERVAL'S INFLECTION, JUST ITS DISTANCE AND DIRECTION.

FOR EXAMPLE, TO DETERMINE THE ROOT MOVEMENT HERE, WE LOOK AT THE ROOT (NOT BASS) OF EACH CHORD AND FIGURE THE INTERVAL BETWEEN THEM.

> SO HERE'S THE PATTERN: COMMON PRACTICE PERIOD COMPOSERS GENERALLY USED ROOT MOVEMENTS OF UP A SECOND, DOWN A THIRD, AND DOWN A FIFTH!



THAT'S NOT SAY THAT THEY NEVER USED OTHER ROOT MOVEMENTS, BUT IT DIDN'T HAPPEN VERY OFTEN.

REMEMBER ... SINCE INFLECTION DOESN'T MATTER, WE CAN IGNORE ACCIDENTALS WHEN WE FIGURE THE ROOT MOVEMENTS.



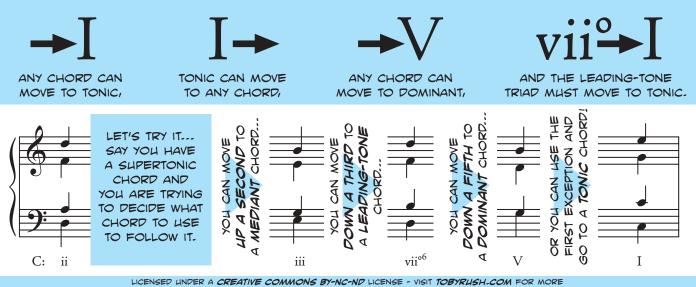
SO, FOR EXAMPLE, A G CHORD TO AN E CHORD IS DOWN A THIRD, BUT SO IS G TO E FLAT, AND G SHARP TO E FLAT!

SEQUENCES OF CHORDS THAT **DON'T** FOLLOW THIS PATTERN ARE CALLED RETROGRESSIONS, AND THEY ARE CONSIDERED UNSTYLISTIC.



"UNSTYLISTIC" IS A POLITE WAY OF SAYING "THE COMPOSERS DIDN'T DO IT SO YOU SHOULDN'T DO IT EITHER"!

THERE ARE ALSO FOUR SIMPLE EXCEPTIONS TO THIS PATTERN:



Diatonic Common Chord Modulation

MODULATION IS THE PROCESS OF CHANGING TO A DIFFERENT KEY WITHIN A PIECE OF MUSIC.

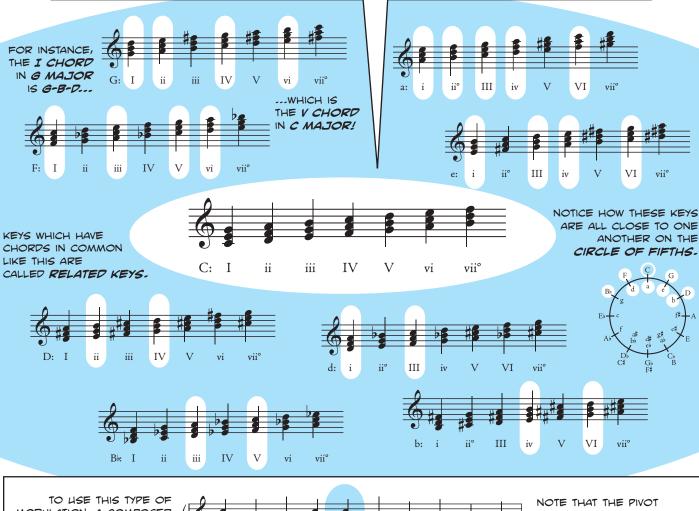
THERE ARE SEVERAL DIFFERENT WAYS TO MODULATE; PERHAPS THE SIMPLEST IS THE UNPREPARED MODULATION, WHERE THE MUSIC PAUSES AND SUDDENLY CHANGES KEY, OFTEN UP A HALF-STEP.





COMMON PRACTICE PERIOD COMPOSERS, HOWEVER, PREFERRED A PARTICULAR TYPE OF MODULATION THAT REQUIRED A LITTLE MORE PLANNING: THE *DIATONIC COMMON CHORD MODULATION.* AS THE NAME SUGGESTS, THIS USES A CHORD WHICH IS *DIATONIC* IN BOTH THE *OUTGOING KEY* AND THE **NEW KEY**.

LET'S SAY WE'RE STARTING OFF IN C MAJOR ... HERE IS A LIST OF ALL THE KEYS WHICH HAVE CHORDS IN COMMON WITH C MAJOR (THE SPECIFIC CHORDS ARE HIGHLIGHTED):



NOTE THAT THE PIVOT CHORD IS **ALWAYS** THE **LAST CHORD** THAT CAN BE ANALYZED IN THE **OLD KEY...** THE FIRST ACCIDENTALS WILL ALWAYS OCCUR IN THE CHORD **IMMEDIATELY FOLLOWING** THE **PIVOT CHORD!** 

TO USE THIS TYPE OF MODULATION, A COMPOSER WOULD PIVOT THE HARMONY AROUND THE CHORD THAT FIT INTO BOTH KEYS. AS THEORISTS, WE SHOW THIS PIVOT CHORD BY ANALYZING THE CHORD IN BOTH KEYS.

C: I

ii

V

Ι

V

VI

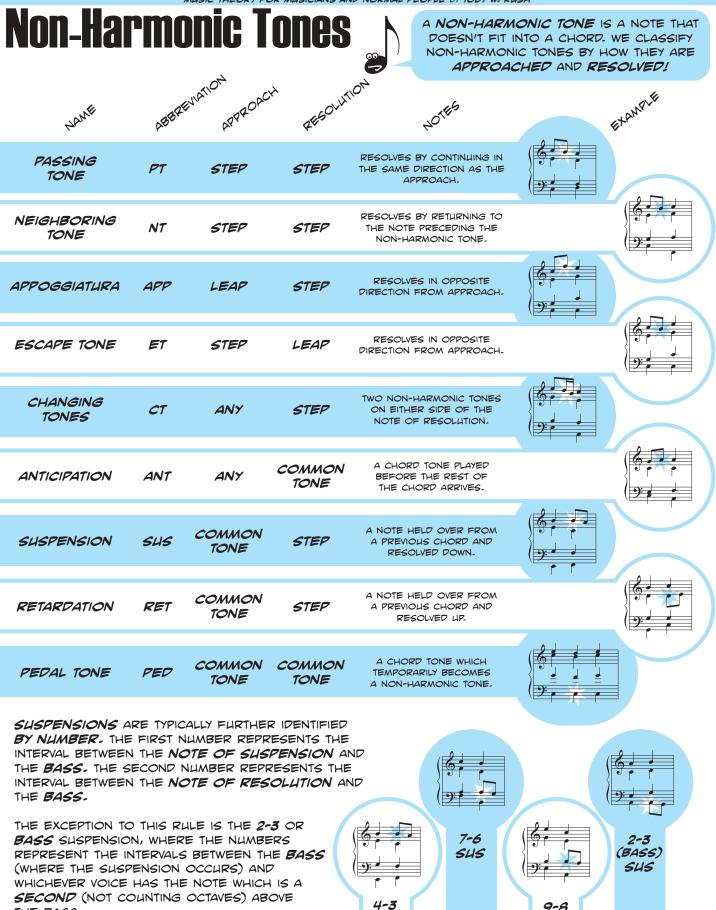
iv

i

V

vi

e: iv



SUS

THE BASS.

9-8

SUS

MUSIC THEORY FOR MUSICIANS AND NORMAL PEOPLE BY TOBY W. RUSH YTHE MUSIC THEORY DOG! hey, kids! Dear Sparky: Can you elaborate on why suspensions are identified by numbers? Also, what should one watch out for when writing suspensions in four-part harmony? --S.S., Detroit, MI I WHEN ANALYZING SUSPENSIONS, IT IS IMPORTANT TO IDENTIFY TRANSLATION: THEOR BOTH THE NOTE OF SUSPENSION (THE NON-HARMONIC TONE ITSELF) AND THE NOTE OF RESOLUTION (THE NOTE THAT COMES RIGHT AFTER THE NON-HARMONIC TONE IN THE SAME VOICE). IN ALMOST EVERY CASE, THIS A IS THE THE SUSPENSION IS NOTE OF SUSPENSION ... THEN LABELED USING IT POESN'T BELONG IN TWO INTERVALS: THE THIS G MAJOR TRIAD. INTERVAL BETWEEN THE NOTE OF SUSPENSION THIS IS AND THE BASS, AND THE IT RESOLVES TO A 7TH! THIS IS THIS G, WHICH DOES INTERVAL BETWEEN THE A 6TH! FIT IN THE CHORD. NOTE OF RESOLUTION C: IV IT'S THE NOTE OF AND THE BASS.

**RESOLUTION!** 

WHEN **WRITING** AN EXAMPLE WHICH INCLUDES A SUSPENSION, IT IS VERY OFTEN USEFUL TO **BEGIN** BY WRITING THE CHORD THAT IS GOING TO CONTAIN THE SUSPENSION, **THEN** ADDING THE SUSPENSION, AND FINISHING BY WRITING THE **CHORD OF APPROACH**.

 $V^6$ 

C: IV





THE ONLY EXCEPTION TO THIS IS THE 2-3 SUSPENSION, WHERE THE SUSPENSION OCCURS IN THE BASS. FOR THIS ONE, WE LOOK AT THE INTERVAL BETWEEN THE NOTES OF SUSPENSION AND RESOLUTION AND THE NEAREST CHORD TONE, WHICHEVER VOICE IT MAY BE IN.

.... SO IT'S A

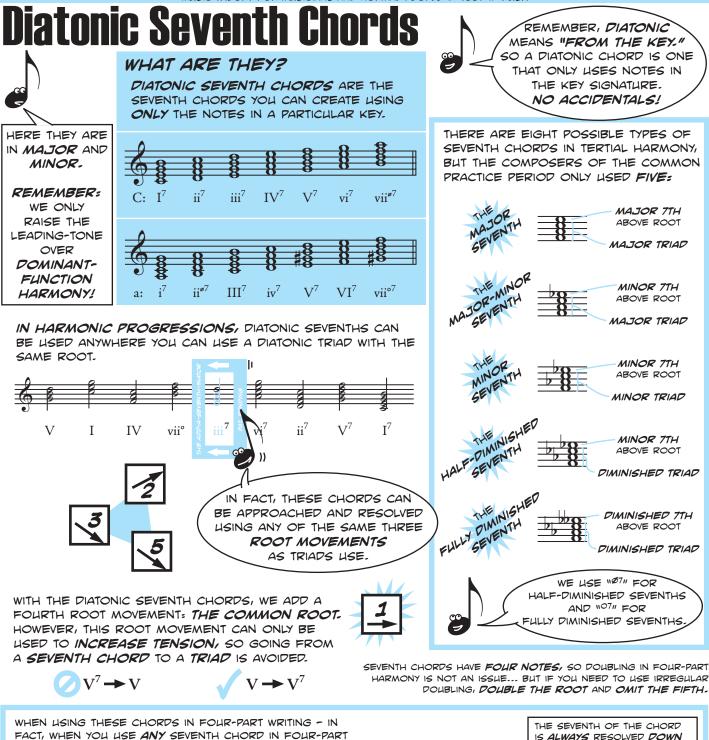
7-6 SUSPENSION!

THE REAL TRICK, THOUGH, IS TO **PLAN AHEAD...** IF YOU ARE PLANNING TO WRITE A PARTICULAR TYPE OF SUSPENSION, YOU NEED TO THINK ABOUT THE **INTERVAL THAT NEEDS TO BE PRESENT** IN THE CHORD THAT INCLUDES YOUR SUSPENSION.

FOR THE 9-8 SUSPENSION, THE SUSPENSION RESOLVES TO AN OCTAVE ABOVE THE BASS... THAT'S EASY, SINCE ANY CHORD CAN INCLUDE AN OCTAVE. FOR THE **7-6 SUSPENSION**, THE SUSPENSION RESOLVES TO A **SIXTH** ABOVE THE BASS. THAT MEANS YOU CAN'T USE A CHORD IN **ROOT POSITION**, BECAUSE THEY HAVE A FIFTH AND A THIRD ABOVE THE BASS. YOU NEED A **FIRST** OR **SECOND INVERSION** TRIAD!

FOR THE 4-3 SUSPENSION AND 2-3 SUSPENSION, YOU NEED A CHORD WITH A THIRD ABOVE THE BASS... WHICH MEANS YOU CAN USE ANYTHING EXCEPT A SECOND INVERSION TRIAD.

DOING STUFF THE SPARKY WAY IS ALWAYS FUN!

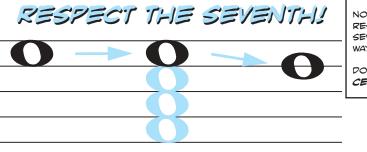


THE SEVENTH OF THE CHORD IS MOST OFTEN APPROACHED BY THE COMMON TONE.

WRITING, YOU MUST ALWAYS, ALWAYS REMEMBER TO ...

HOWEVER, IT IS OKAY TO APPROACH THE SEVENTH FROM BELOW BY A STEP OR A LEAP, OR FROM ABOVE BY A STEP.

YOU MUST **NEVER** APPROACH THE SEVENTH BY A **LEAP** FROM **ABOVE!** 



IS ALWAYS RESOLVED DOWN BY STEP. ALWAYS! NO, I'M SERIOUS. DON'T EVER

RESOLVE THE SEVENTH OF A SEVENTH CHORD ANY OTHER WAY.

DOING SO WILL CAUSE YOU CERTAIN DEATH!

## The Dominant Seventh

THE **DOMINANT SEVENTH** IS THE **DIATONIC SEVENTH CHORD** BUILT ON THE **FIFTH SCALE DEGREE.** WE ALREADY DISCUSSED DIATONIC SEVENTH CHORDS... WHY GIVE **THIS ONE** ALL THIS SPECIAL ATTENTION?

FOR ONE THING, THE DOMINANT SEVENTH IS, BY FAR, THE **MOST COMMON SEVENTH CHORD** USED BY THE COMPOSERS OF THE COMMON PRACTICE PERIOD. BUT ANOTHER REASON FOR SPENDING A LITTLE EXTRA TIME WITH IT IS THE FACT THAT THERE ARE A FEW THINGS THAT APPLY TO IT THAT DON'T APPLY TO THE OTHER DIATONIC SEVENTH CHORDS.

FIRST, A NOTE ON TERMINOLOGY:

THE TERMS "MAJOR-MINOR SEVENTH" AND "DOMINANT SEVENTH" ARE NOT INTERCHANGEABLE! "MAJOR-MINOR SEVENTH" IS THE CHORD'S **TYPE**, AND "DOMINANT SEVENTH" IS THE **ROLE** THE CHORD PLAYS IN THE **CONTEXT OF A PARTICULAR KEY**. IT'S JUST A MAJOR-MINOR SEVENTH ....

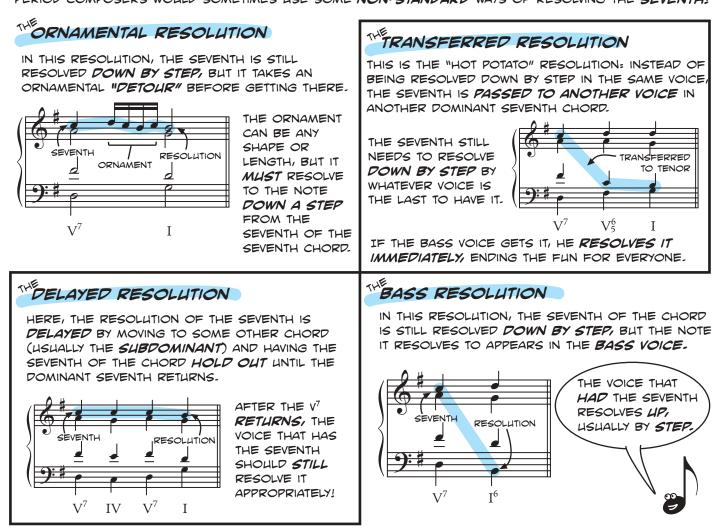


UNTIL IT'S PLACED IN A PARTICULAR KEY!

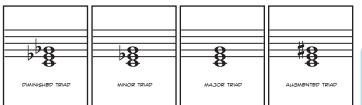
CONFUSED IS THAT IN **POPULAR AND JAZZ THEORY,** THE TERM "DOMINANT" IS USED TO LABEL THE CHORD **TYPE** INSTEAD OF THE CHORD'S **ROLE.** 

THE REASON THESE ARE OFTEN

THE OTHER IMPORTANT THING TO KNOW ABOUT THE DOMINANT SEVENTH CHORD IS THAT COMMON PRACTICE PERIOD COMPOSERS WOULD SOMETIMES USE SOME NON-STANDARD WAYS OF RESOLVING THE SEVENTH!

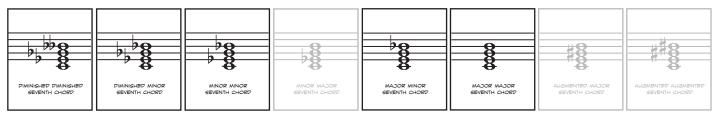


# **Extended Harmonies**

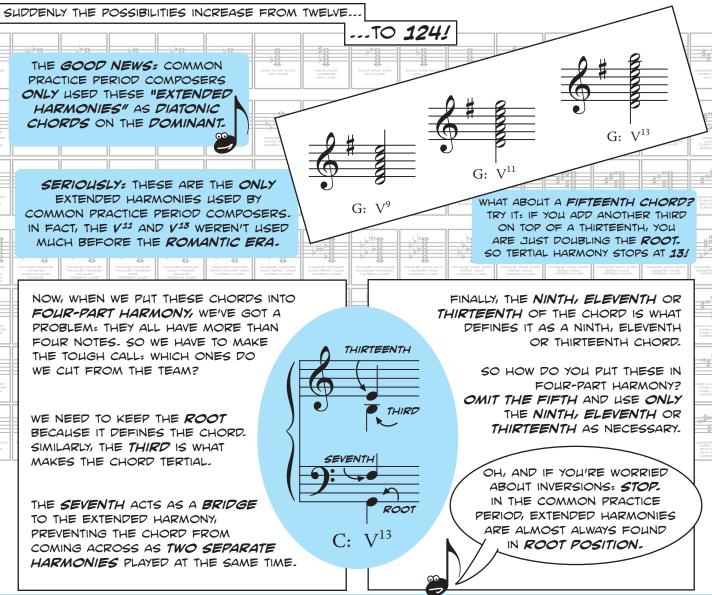


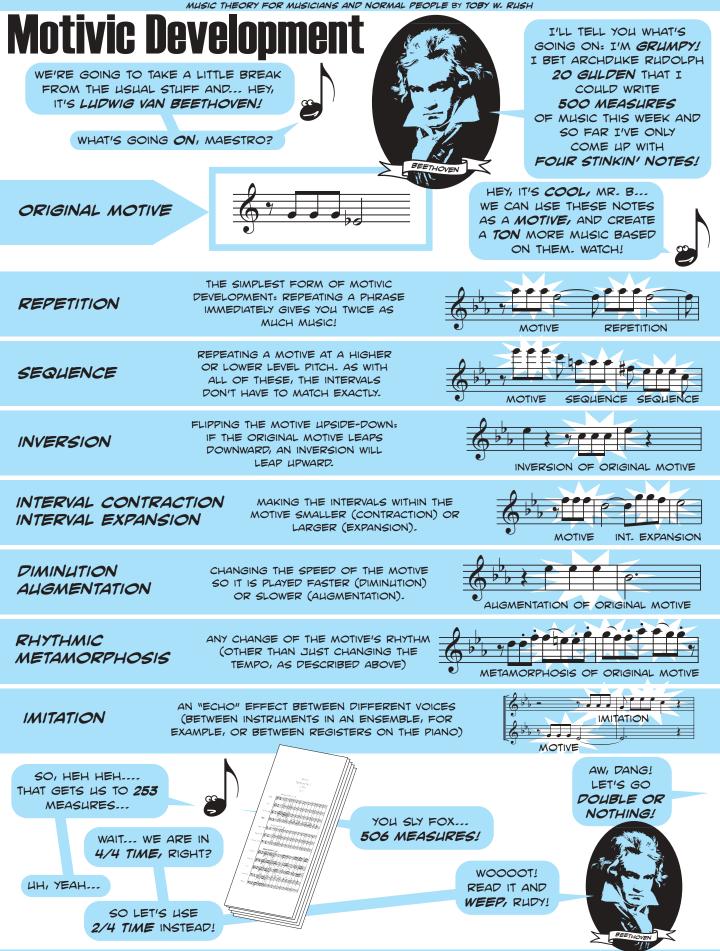
SO FAR, WE'VE TALKED ABOUT TWO TYPES OF TERTIAL CHORDS: **TRIADS** AND **SEVENTH CHORDS.** REMEMBER, **TERTIAL** CHORDS ARE CHORDS CONSTRUCTED BY STACKING **MAJOR** AND **MINOR THIRDS!** 

NOW, THERE ARE FOUR TYPES OF TRIADS AND EIGHT TYPES OF SEVENTH CHORDS, EVEN THOUGH COMMON PRACTICE PERIOD COMPOSERS ONLY USED FIVE OF THEM.



SO THAT MAKES FOR **TWELVE** CHORD TYPES SO FAR... BUT WHAT IF WE KEEP GOING? WHAT OTHER CHORD TYPES CAN WE MAKE BY STACKING MAJOR AND MINOR THIRDS? TERTIAL CHORDS WITH **FIVE, SIX** AND **SEVEN** NOTES ARE CALLED **NINTH CHORDS, ELEVENTH CHORDS** AND **THIRTEENTH CHORDS** RESPECTIVELY.





WHEN WE TALK ABOUT THE **FORM** OF A PIECE, WE ARE REFERRING TO THE LARGE-SCALE LAYOUT OF THE PIECE... SPECIFICALLY, THE ARRANGEMENT OF SECTIONS OF MUSIC, HOW AND WHEN THEY ARE REPEATED, AND WHAT KEYS ARE BEING USED.







ONE OF THE SIMPLEST FORMS IS BINARY FORM, WHICH CONSISTS OF TWO CONTRASTING SECTIONS. WE REFER TO THESE TWO SECTIONS AS A AND B.

THE SECTIONS MIGHT BE CONTRASTING IN MOOD, TEMPO, KEY, OR EVEN IN A COMBINATION OF THESE CHARACTERISTICS.



BINARY FORM IS USED IN **BAROQUE DANCE** SUITES IN A VERY SPECIFIC WAY. IN THESE PIECES, BOTH SECTIONS ARE REPEATED. THE A SECTION BEGINS IN THE PRIMARY KEY AND MODULATES TO THE KEY OF THE DOMINANT, AND THE B SECTION BEGINS IN THAT KEY AND MODULATES BACK TO THE ORIGINAL KEY. PERFORMERS OF THE TIME WOULD TYPICALLY IMPROVISE ORNAMENTATION WHEN REPEATING EACH SECTION.

BAROQUE DANCE SUITES WERE WRITTEN FOR VARYING INSTRUMENTATION; MANY WERE WRITTEN FOR KEYBOARD (USUALLY HARPSICHORD OR CLAVICHORD), OTHERS WERE WRITTEN FOR CHAMBER GROUPS, AND SOME WERE EVEN WRITTEN FOR FULL ORCHESTRA.

EACH MOVEMENT OF THESE SUITES WOULD BE WRITTEN IN THE STYLE OF A PARTICULAR BAROQUE DANCE: ALLEMANDE, GAVOTTE, BOUREE, COURANTE, SARABANDE, LOUREE, GIGUE, AND OTHERS, EACH OF WHICH HAD A SPECIFIC CHARACTER.

BECAUSE BAROQUE DANCE FORM IS SO COMMON IN BAROQUE INSTRUMENTAL MUSIC, WHEN THEORISTS AND MUSICOLOGISTS ARE TALKING ABOUT BAROQUE MUSIC AND SAY **"BINARY FORM,"** THEY ARE ACTUALLY REFERRING TO **BAROQUE DANCE FORM.** 

ANOTHER SOMEWHAT RARE VARIATION OF BINARY FORM IS **ROUNDED BINARY FORM**, WHERE THE **A** SECTION RETURNS AFTER THE END OF THE **B** SECTION. THIS REPRISE OF THE **A** SECTION, HOWEVER, IS **SHORTENED**, SO WE REFER TO IT AS **"A PRIME."** 





**TERNARY FORM** IS A THREE-PART FORM. RATHER THAN USING **THREE COMPLETELY DIFFERENT SECTIONS,** MOST PIECES IN TERNARY FORM CONSIST OF **TWO** SECTIONS, THE FIRST OF WHICH IS **REPRISED**.

IN TERNARY FORM, THE A SECTION APPEARS BOTH AT THE BEGINNING AND AT THE END; LIKE BINARY FORM, THE **B** SECTION IS **CONTRASTING** IN CHARACTER.

THE REPRISED A SECTION MAY BE AN EXACT REPEAT OF THE FIRST A, OR IT MAY BE SLIGHTLY DIFFERENT, BUT THE LENGTH OF THE A SECTIONS SHOULD BE SIMILAR.



THIS IS DIFFERENT FROM **ROUNDED BINARY**, WHERE THE REPRISED **A** SECTION (WHICH WE CALLED **A PRIME**) IS **SIGNIFICANTLY SHORTER** THAN THE FIRST **A** SECTION.

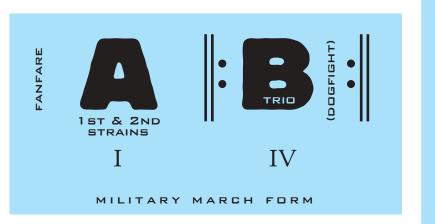


THE **MINUET AND TRIO** IS A VARIATION ON TERNARY FORM USED FOR INSTRUMENTAL MUSIC. INSTEAD OF WRITING OUT THE REPRISED **A** SECTION, THE SCORE WILL PLACE THE INSTRUCTION **"DA CAPO AL FINE"** AFTER THE **B** SECTION, WHICH MEANS TO RETURN TO THE BEGINNING, PLAY THROUGH THE **A** SECTION, AND END THE PIECE.

THIS SAME FORM IS COMMONLY USED IN BAROQUE AND CLASSICAL OPERA, WHERE IT IS CALLED A **DA CAPO ARIA.** IN BOTH MINUET & TRIO AND DA CAPO ARIA, ANY **REPEATS** ARE **IGNORED** WHEN PLAYING THROUGH THE REPRISED **A** SECTION.

IT'S WORTH MENTIONING THAT THERE IS A COMMON FORM THAT IS DESCENDED FROM MINLET AND TRIO FORM: THE MILITARY MARCH FORM FAVORED BY JOHN PHILIP SOUSA AND OTHER AMERICAN MARCH COMPOSERS.





IN THE **MILITARY MARCH FORM**, THE A SECTION IS SPLIT INTO TWO SUBSECTIONS, CALLED THE **FIRST STRAIN** AND **SECOND STRAIN**. THE TRIO **ADDS A FLAT** (OR REMOVES A SHARP) FROM THE KEY SIGNATURE, MODULATING TO THE KEY OF THE **SUBDOMINANT**. MOST MARCHES BEGIN WITH A SHORT **FANFARE**, AND REPEAT THE TRIO, PLACING A SHORT, INTENSELY DRAMATIC PASSAGE BETWEEN REPETITIONS CALLED THE **DOGFIGHT** OR **BREAKSTRAIN**.

## Sonata Allegro Form

SONATA ALLEGRO FORM IS A SPECIFIC FORM FIRST USED BY EARLY CLASSICAL COMPOSERS IN OPENING MOVEMENTS OF MULTI-MOVEMENT WORKS FOR SOLO, CHAMBER OR LARGE GROUPS.

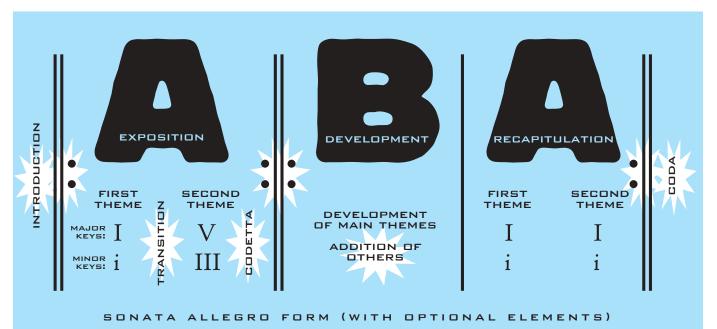
THE FORM ITSELF IS BASED FROM TERNARY FORM, IN THAT THE FIRST LARGE SECTION IS REPRISED AT THE END OF THE FORM.

IT WAS EVENTUALLY ADOPTED BY OTHER COMPOSERS OF THE CLASSICAL AND EARLY ROMANTIC ERAS.

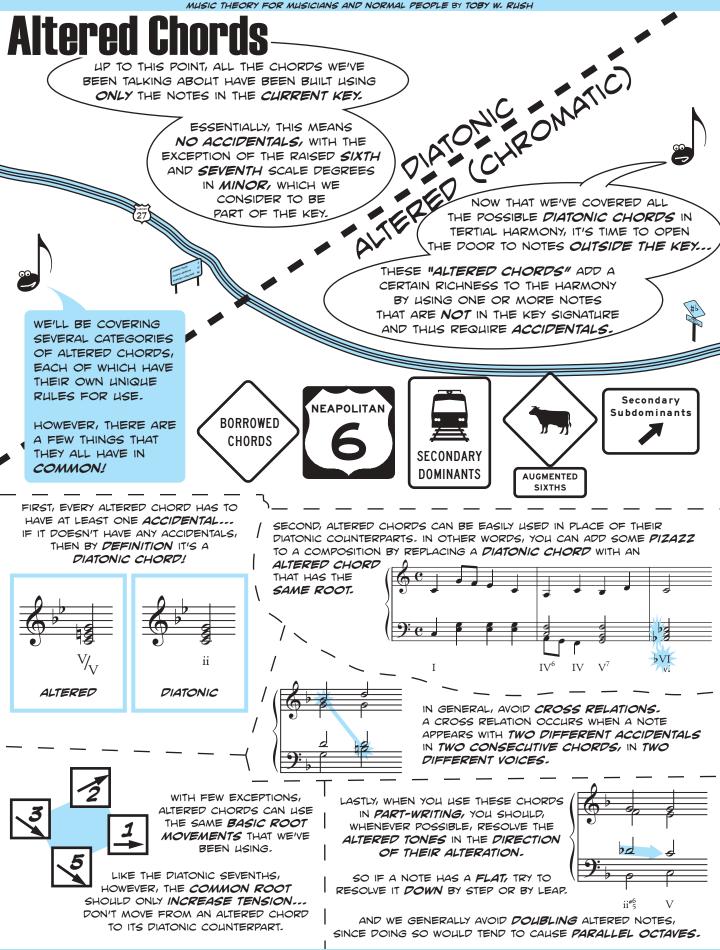


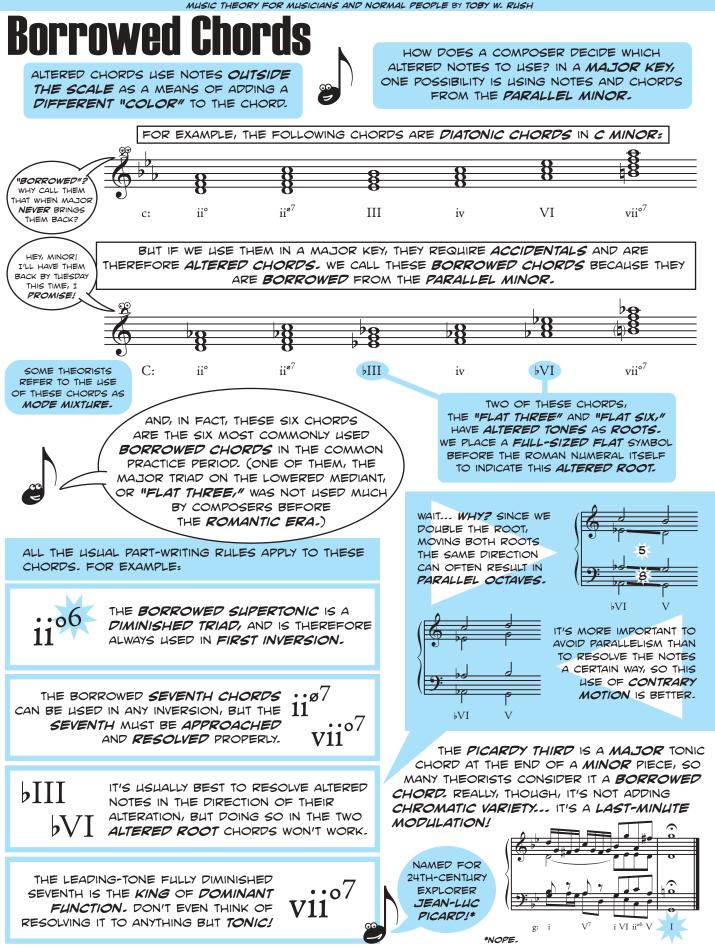
ONE OF THE MOST IMPORTANT FEATURES OF SONATA ALLEGRO FORM IS THE **TWO PRIMARY THEMES** THAT MAKE UP THE EXPOSITION. THESE TWO THEMES WILL BE **CONSTRASTING IN CHARACTER** AND, AT LEAST IN THE EXPOSITION, WILL BE IN **DIFFERENT KEYS.** IN A MAJOR WORK, THE SECOND THEME WILL BE IN THE KEY OF THE **DOMINANT**; IN A MINOR PIECE, THE SECOND THEME WILL BE IN THE **RELATIVE MAJOR.** IN THE **RECAPITULATION**, HOWEVER, **BOTH** THEMES ARE PLAYED IN THE **TONIC!** 

THE DIAGRAM ABOVE SHOWS THE **REQUIRED ELEMENTS** OF SONATA FORM; IN THE DIAGRAM BELOW, SEVERAL OTHER ELEMENTS, WHICH ARE **OPTIONALLY** INCLUDED, ARE ALSO SHOWN.



BEAR IN MIND THAT COMPOSERS DID WHAT THEY **WANTED** TO ... SOME OF THE GREATEST PIECES WRITTEN IN SONATA ALLEGRO FORM FEATURE PLACES WHERE THE COMPOSER ARTFULLY **BROKE** THESE "RULES"!





## The Neapolitan Six

IN ADDITION TO THE ALTERED ROOT BORROWED CHORDS, THERE IS ANOTHER ALTERED ROOT CHORD THAT FITS WELL WITH THE BORROWED CHORDS, EVEN THOUGH IT IS NOT ACTUALLY BORROWED FROM THE PARALLEL MINOR.

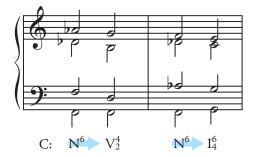
> THAT CHORD IS A MAJOR TRIAD BUILT ON THE LOWERED SECOND SCALE DEGREE.

> > 6

SINCE IT'S NOT A BORROWED CHORD, THIS CHORD CAN BE USED IN BOTH MAJOR AND MINOR.

THERE ARE A COUPLE OF INTERESTING THINGS ABOUT THIS CHORD. ONE IS THE FACT THAT IT IS **ALMOST EXCLUSIVELY** USED IN **FIRST INVERSION**.

THE NEAPOLITAN SIX CHORD, SINCE IT IS BUILT ON A FORM OF THE SUPERTONIC, HAS SOME CHARACTERISTICS OF A SUBDOMINANT FUNCTION CHORD IN THAT IT OFTEN RESOLVES TOWARD A DOMINANT FUNCTION. IN FACT, IT IS VERY COMMON TO SEE THE NEAPOLITAN CHORD RESOLVE TO A DOMINANT SEVENTH IN THIRD INVERSION, OR TO A CADENTIAL SIX-FOUR CHORD.



(EVEN THOUGH THE NEAPOLITAN CHORD HAS A LOT IN COMMON WITH OTHER SUBDOMINANT FUNCTION CHORDS, IT IS MOST OFTEN REFERRED TO AS PART OF A LARGER GROUP OF CHORDS CALLED **PREDOMINANTS**, AND THE LABEL OF "SUBDOMINANT FUNCTION" IS GENERALLY LIMITED TO THE **SUBDOMINANT** AND **SUPERTONIC** CHORDS AND THEIR VARIANTS.) SERIOUSLY! ALTHOLIGH THIS CHORD IS EXTREMELY COMMON IN THE COMMON PRACTICE PERIOD, THERE ARE VERY FEW EXAMPLES OF IT USED IN ROOT POSITION. SECOND INVERSION IS EVEN RARER.

THE SECOND INTERESTING THING ABOUT THE CHORD IS ITS NAME: YOU MIGHT EXPECT IT TO BE CALLED A "FLAT TWO," IN KEEPING WITH THE OTHER ALTERED ROOT CHORDS.

BUT, IN FACT, THIS IS THE FIRST OF A FEW CHORDS THAT HAVE SPECIAL NAMES. THIS PARTICULAR ONE IS CALLED THE **NEAPOLITAN CHORD**.

"NEAPOLITAN" MEANS "FROM NAPLES," REFERRING TO THE CITY OF NAPLES, ITALY. THE CHORD ISN'T ACTUALLY FROM NAPLES, THOUGH; IT WAS JUST ASSOCIATED WITH THE OPERAS WRITTEN BY NEAPOLITAN COMPOSERS LIKE ALESSANDRO SCARLATTI.



FUNNY THING IS, THIS CHORD WAS USED PRETTY COMMONLY **BEFORE** SCARLATTI'S TIME, IN COMPOSITIONS FAR FROM THE COURTS OF ITALY.

NAPLES

IT'S ALSO WORTH NOTING THAT ALTHOUGH NEARLY EVERY THEORIST AND THEORY TEXTBOOK CALLS THE CHORD A "NEAPOLITAN SIXTH CHORD," IT IS MORE PROPERLY CALLED A "NEAPOLITAN SIX CHORD." THAT'S BECAUSE IN THE RARE SITUATIONS WHERE IT IS USED IN ROOT POSITION, IT IS SIMPLY CALLED THE NEAPOLITAN CHORD, AND WHEN IT IS FOUND IN SECOND INVERSION, IT'S CALLED THE NEAPOLITAN SIX-FOUR.

SINCE WE DON'T PRONOLINCE I' AS "ONE SIXTH," WE SHOULDN'T SAY "NEAPOLITAN SIXTH" FOR N'!

->

MUSIC THEORY FOR MUSICIANS AND NORMAL PEOPLE BY TOBY W. RUSH



THERE IS A **DUALITY** AT THE HEART OF COMMON PRACTICE PERIOD HARMONIC PROGRESSION. LIKE THE ANCIENT CONFLICT OF JEDI AND SITH, IT CONSISTS OF FORCES THAT, AT ONE LEVEL, WORK AGAINST EACH OTHER ... BUT AT ANOTHER, HIGHER LEVEL, WORK TOGETHER, CREATING ENERGY THAT DRIVES ALL ELSE.

THE PROGRESSION OF DOMINANT MOVING TO TONIC IS SO STRONG, IT WOULD BE NICE TO BE ABLE TO USE IT TO PROVIDE MOTION TO CHORDS OTHER THAN TONIC.

THAT DUALITY, OF COURSE, IS THE RELATIONSHIP OF **DOMINANT FUNCTION** AND TONIC. DOMINANT HARMONY TYPIFIES TENSION IN THE COMMON PRACTICE PERIOD, AND THE TONIC REPRESENTS RELEASE. ITS SIMPLEST FORM, THE ALTHENTIC CADENCE, HAS BEEN UBIQUITOUS IN WESTERN MUSIC FOR CENTURIES.

> BUT THAT'S CRAZY TALK, THOUGH, ISN'T IT? I MEAN, HOW COULD WE CONTROL THAT MAGIC AND MAKE IT OBEY OUR COMPOSITIONAL WHIM?

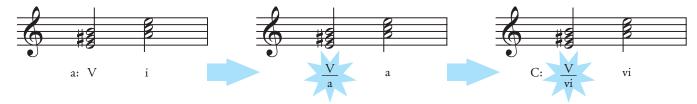
THE ANSWER, OF COURSE, IS WITH SECONDARY DOMINANTS.

LET'S SAY WE WANTED TO APPROACH THIS VI CHORD. vi

WE COULD USE ONE OF THE USUAL DIATONIC CHORDS, THE TONIC, THE SUBDOMINANT, THE MEDIANT ... BUT WHAT IF WE'RE LOOKING FOR A BIT MORE TENSION AND RELEASE?

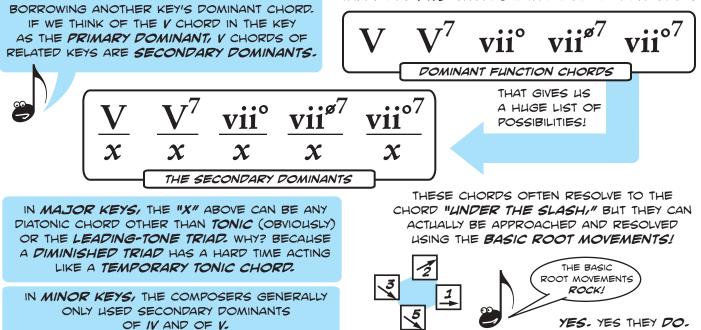


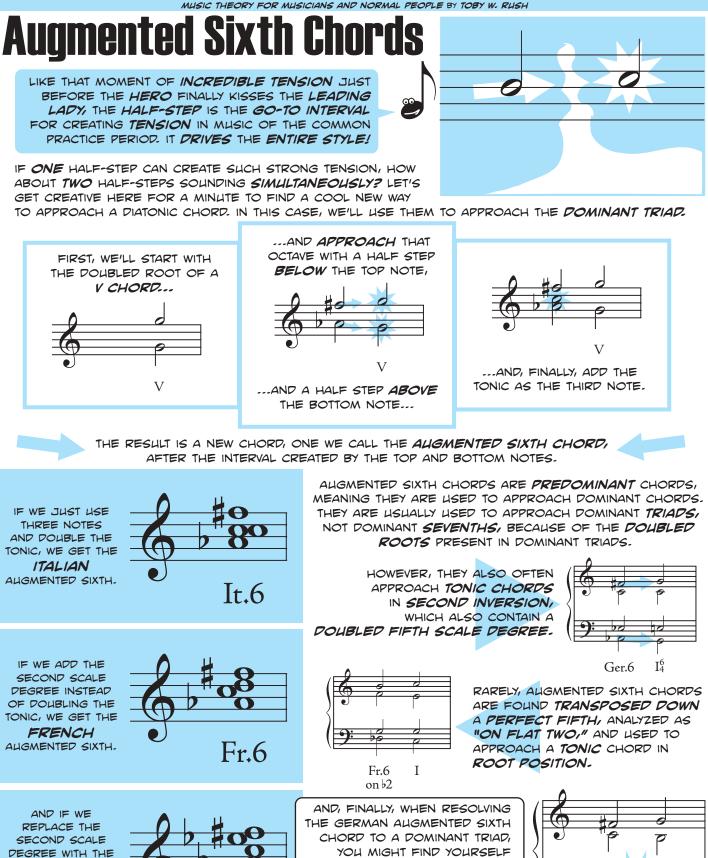
IF WE PRETEND FOR A MOMENT THAT THE CHORD WE'RE RESOLVING TO IS A TONIC CHORD, WHAT WOULD THE CORRESPONDING DOMINANT CHORD BE? ALTERED, YES, BUT WE'RE NOT AFRAID OF THOSE ANYMORE



WHILE WE MIGHT HAVE ONCE CALLED THIS A SHORT MODULATION, IT IS REALLY MORE LIKE BORROWING ANOTHER KEY'S DOMINANT CHORD. IF WE THINK OF THE V CHORD IN THE KEY AS THE PRIMARY DOMINANT, V CHORDS OF RELATED KEYS ARE SECONDARY DOMINANTS.

NOW, WE'RE NOT JUST LIMITED TO THE V CHORD: THERE ARE FIVE CHORDS WITH A DOMINANT FUNCTION!





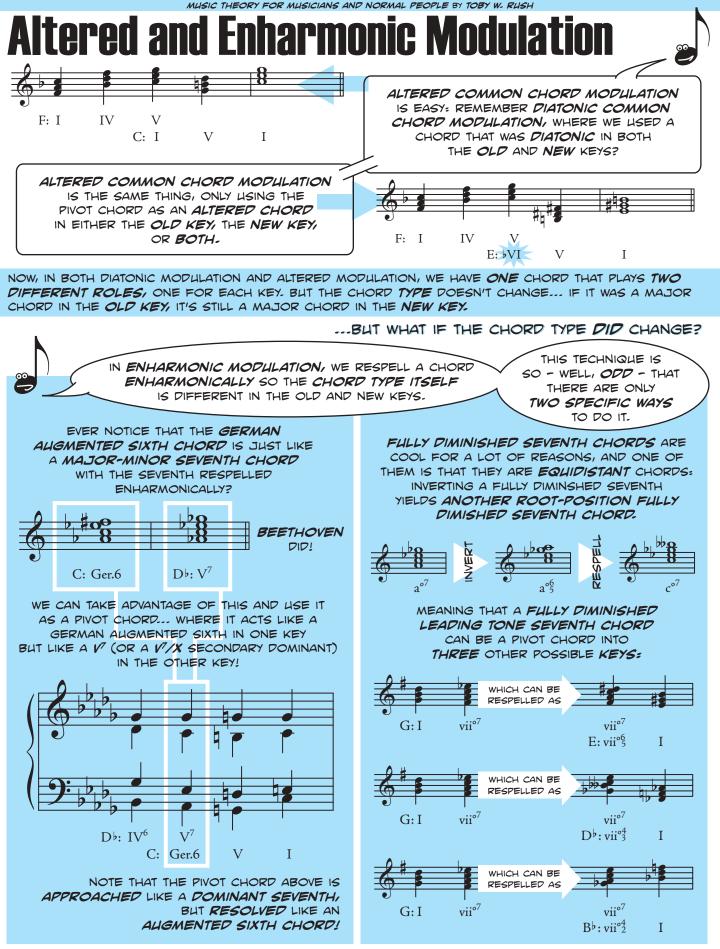
you might find yourself writing parallel fifths... But it's perfectly okay! mozart did it all the time!

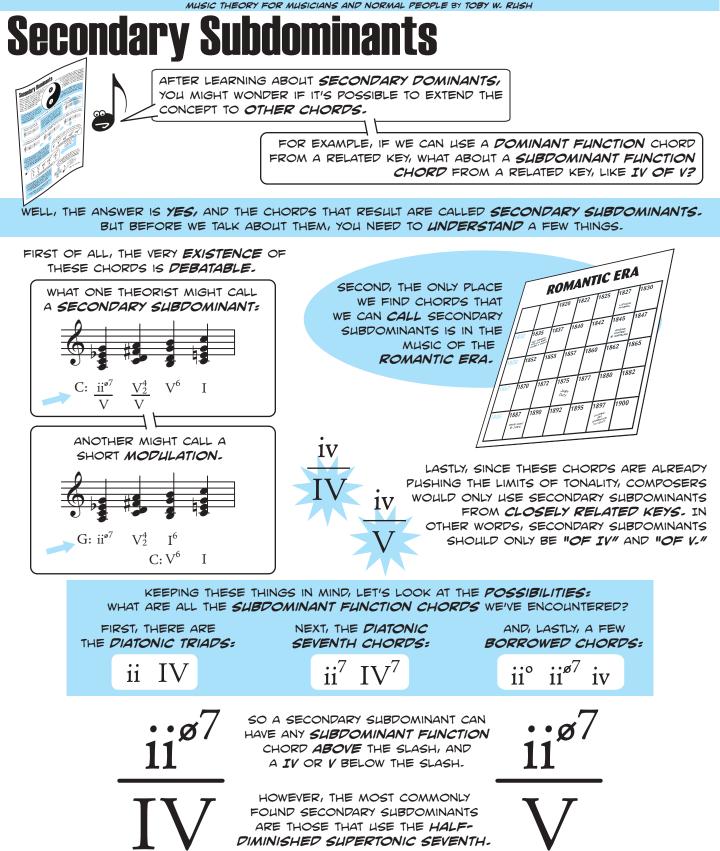
LOWERED THIRD SCALE DEGREE,

WE GET THE

GERMAN AUGMENTED SIXTH.



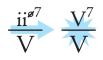


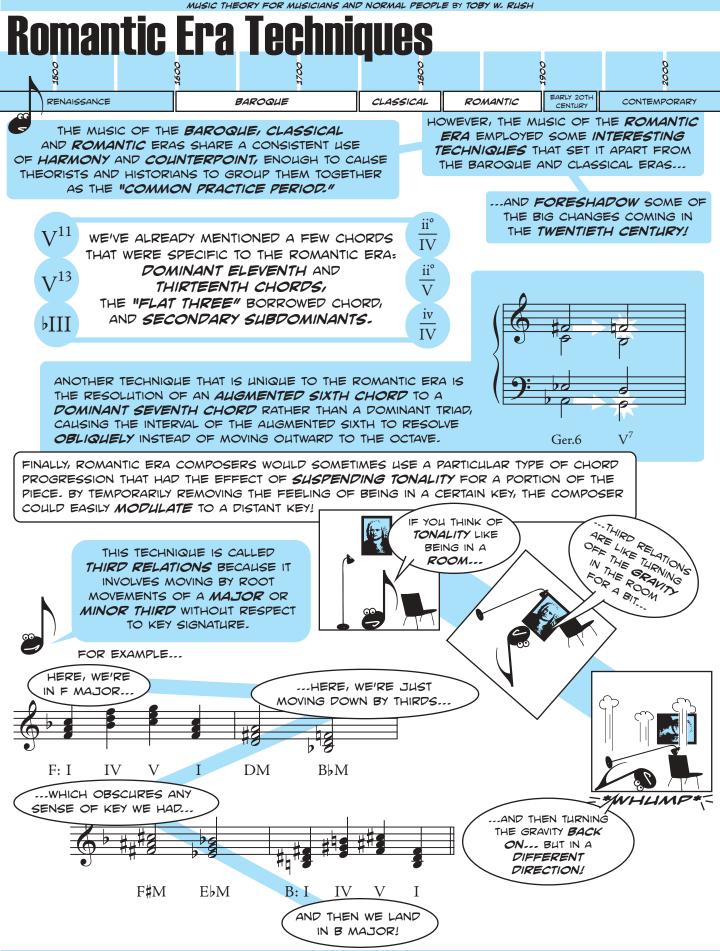


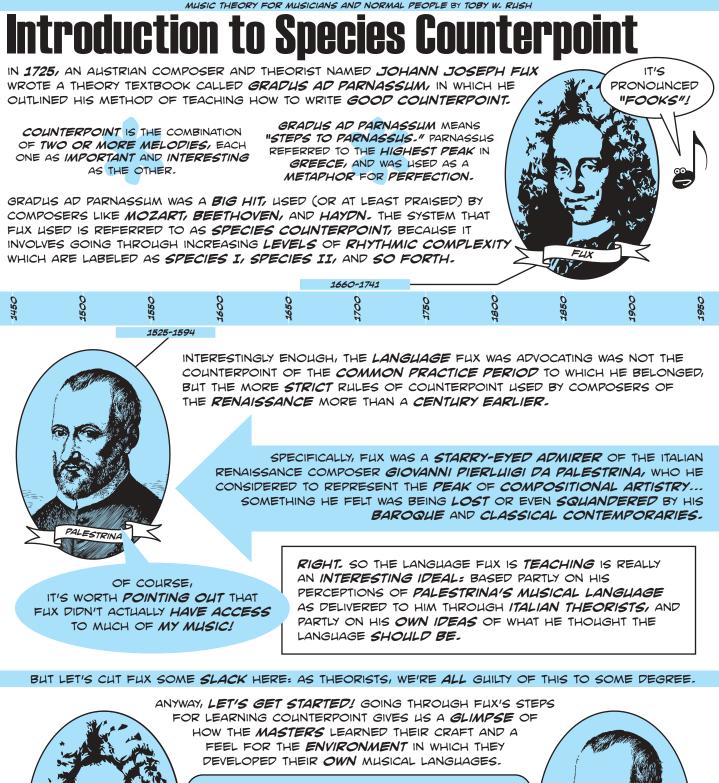
TO APPROACH THESE CHORDS, LISE ANY OF THE BASIC ROOT MOVEMENTS.

WHICH ARE AWESOME.

THE MOST COMMON WAY TO **RESOLVE** SECONDARY SUBDOMINANTS IS TO THE CORRESPONDING **SECONDARY DOMINANT.** 





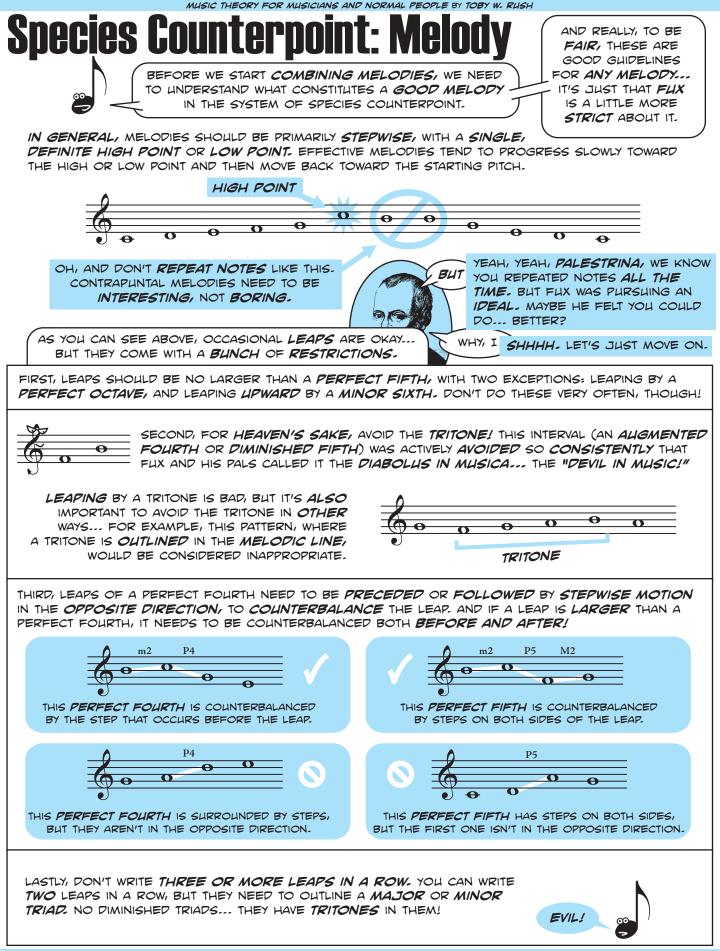


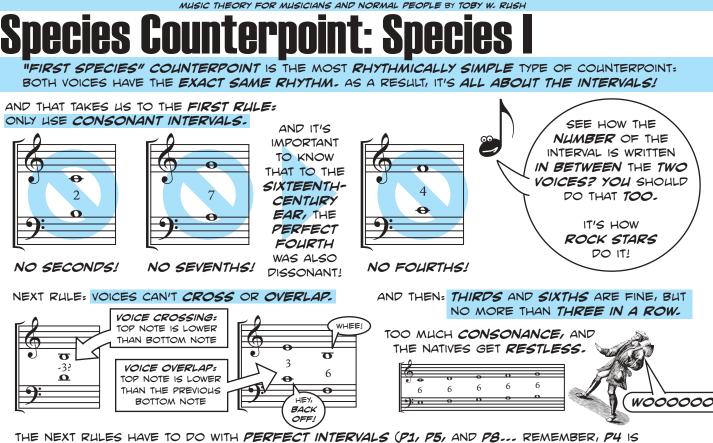
HURRAY! LET'S GO, GIOVANNI, AND BRING THE BEAUTIFUL LIGHT OF PERFECT COMPOSITION TO THESE EAGER STUDENTS!

YEAH, JOE, **ABOUT** THAT ... YOU **DO** REALIZE THAT YOUR IDEA OF **PERFECT COMPOSITION** IS JUST A

BLISSFULLY AWESOME THING? YES, THAT'S JUST WHAT I WAS THINKING!

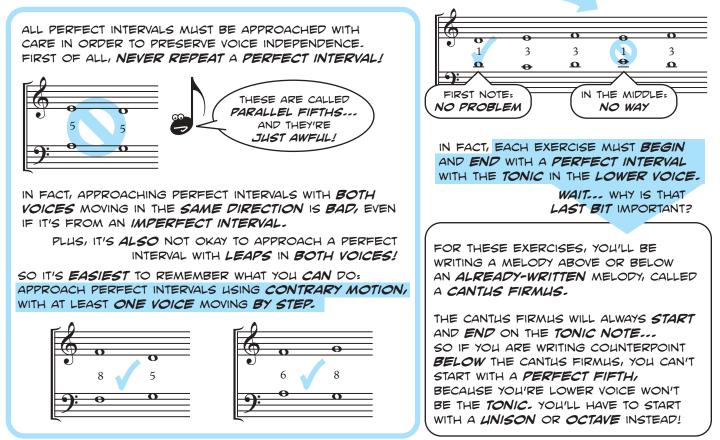
NO, I MEAN THAT IT'S SUPER FUN? YAYYYY

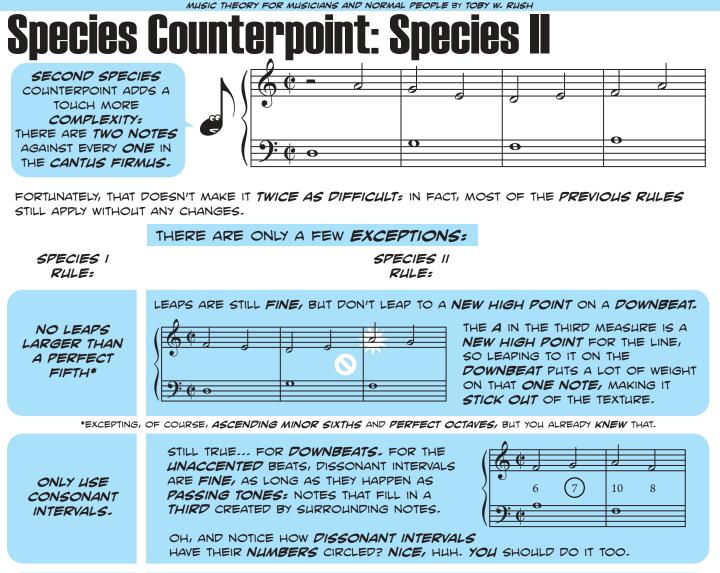




DISSONANT!), WHICH PLAY IMPORTANT ROLES AND REQUIRE SOME SPECIAL TREATMENT.

BECAUSE THEY ARE SUCH A STRONG SONORITY WHICH CAN STOP THE COUNTERPOINT IN ITS TRACKS, UNISONS CAN ONLY BE USED ON THE FIRST OR LAST NOTES OF AN EXERCISE.





UNISONS CAN ONLY BE USED ON THE FIRST AND LAST NOTES.

UNISONS CAN BE USED ON UNACCENTED NOTES... JUST BE CAREFUL ABOUT CROSSING OR OVERLAPPING VOICES!

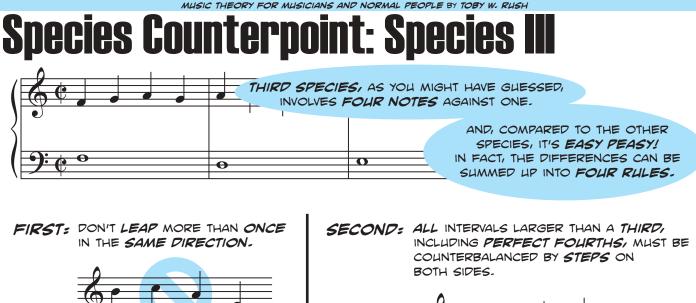
APPROACH PERFECT INTERVALS USING CONTRARY MOTION WITH AT LEAST ONE VOICE MOVING BY STEP. THIS RULE **STILL APPLIES:** IF YOU USE A PERFECT INTERVAL ON A **DOWNBEAT**, YOU NEED TO USE **CONTRARY MOTION** FROM THE IMMEDIATELY PRECEDING NOTES, AND AT LEAST **ONE VOICE** MUST MOVE BY **STEP**.

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J	8	10	8	6
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HOWEVER, YOU MUST ALSO BE CAREFUL NOT TO HAVE THE SAME PERFECT INTERVAL ON TWO SUCCESSIVE DOWNBEATS. THIS IS CALLED PARALLEL PERFECT INTERVALS AND IT'S GOING TO BE A NO-NO FOR A GOOD LONG TIME.

(IN FACT, IT'S ALSO NOT OKAY TO HAVE PARALLEL PERFECT INTERVALS FROM THE UNACCENTED BEAT TO THE DOWNBEAT, BUT IF YOU ARE APPROACHING WITH CONTRARY MOTION, THAT WOULDN'T HAPPEN ANYWAY.)

NOT TOO BAD, IS IT? YEAH! BRING ON THIRD SPECIES!





THIRD: AS USUAL, THE FIRST NOTE IN EACH MEASURE MUST BE CONSONANT. THE THIRD NOTE IN THE MEASURE IS ALSO USUALLY CONSONANT, BUT IT CAN BE DISSONANT... AS LONG AS IT'S THE ONLY DISSONANT NOTE IN THE MEASURE.



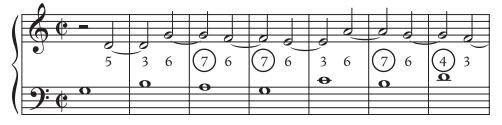
FOURTH: THERE ARE TWO SPECIAL FIGURES WHICH ACT AS EXCEPTIONS TO THE RULES ABOVE.

HEY, THAT MAKES FIVE RULES! NO FAIR! WELL, THEY'RE KIND OF SIMILAR .... THE DOUBLE NEIGHBOR TONE THE NOTA CAMBIATA (OR INVOLVES AN LIPPER NEIGHBOR CHANGING TONE) FOLLOWS AND A LOWER NEIGHBOR PLAYED THE PATTERN OF A STEP DOWN, ONE AFTER ANOTHER, THEN A THIRD DOWN, THEN RETURNING TO THE NOTE THAT TWO STEPS UP. THE MIDDLE NOTE APPROACHED IT. OF THIS FIVE-NOTE FIGURE MUST BE CONSONANT. CAN BE DISSONANT! 3 2 3 CAN BE DISSONANT! 8 7 5 6 6 Ο Θ THIS FIGURE CAN BE INVERTED, MUST BE SO THE LIPPER AND LOWER CONSONANT! NEIGHBORS SWITCH PLACES.

MUSIC THEORY FOR MUSICIANS AND NORMAL PEOPLE BY TOBY W. RUSH

pecies Counterpoint: Species I

WITH THE FOURTH SPECIES, WE STOP USING SMALLER NOTE VALUES AND BACK UP A BIT TO SPECIES I. BUT INSTEAD OF HAVING THE NOTES MOVE AT THE SAME TIME, SPECIES IV INVOLVES THE VOICES BEING OFFSET FROM ONE ANOTHER.



THE BIGGEST DIFFERENCE WITH SPECIES IV IS THE FACT THAT DISSONANCES ARE PERMITTED ON THE DOWNBEAT. BUT AS YOU MIGHT EXPECT, THEY HAVE TO FOLLOW CERTAIN SPECIFIC RULES.

OH YOU

DON'T SAY.

DISSONANCES IN SPECIES IV MUST BE IN THE FORM OF SUSPENSIONS. A SUSPENSION IS A DISSONANT NOTE THAT IS APPROACHED BY BEING HELD OVER - SUSPENDED - FROM THE PREVIOUS NOTE.

ANOTHER IMPORTANT DEFINING CHARACTERISTIC IS THAT THE SUSPENSION RESOLVES DOWN BY STEP. IF IT DOESN'T RESOLVE DOWN BY STEP, IT'S NOT A SUSPENSION!

5



IN THIS CASE, THE SUSPENSION IS THE F ON THE DOWNBEAT OF THE SECOND MEASURE. IT'S PREPARED BY THE F IN THE PREVIOUS MEASURE, AND RESOLVES DOWN TO THE E.

WE LABEL SUSPENSIONS BY THE INTERVALS OF THE SUSPENSION AND RESOLUTION, SO THIS ONE WOULD BE CALLED A 7-6 SUSPENSION. SUSPENSIONS ARE GREAT, BY THE WAY, BUT DON'T USE THE SAME ONE MORE THAN THREE TIMES IN A ROW, OR FUX WILL RELEASE THE HOUNDS.

SIMILARLY, IN THIS EXAMPLE, THE SUSPENDED NOTE IS THE D, WHICH FORMS A FOURTH WITH



THE A. IT MOVES TO A C. A THIRD ABOVE THE BASS, MAKING IT A 4-3 SUSPENSION.

THE 7-6 AND 4-3 SUSPENSIONS ARE THE ONLY ONES FUX ALLOWS WHEN WRITING COUNTERPOINT ABOVE THE CANTUS FIRMUS. THE ONLY SUSPENSION FUX ALLOWS WHEN WRITING COUNTERPOINT **BELOW** THE CANTUS FIRMUS IS THE **2-3 SUSPENSION**, IN WHICH THE SUSPENDED NOTE FORMS A **SECOND** WITH THE CANTUS FIRMUS, THEN RESOLVES **DOWN** TO A THIRD. (WHEN THIS SUSPENSION IS WRITTEN AN OCTAVE LOWER, IT IS SOMETIMES CALLED A 9-10 SUSPENSION.)

SEE HOW WE RESOLVE TO A LARGER INTERVAL, UNLIKE THE 7-6 OR 4-3? WE'RE BELOW THE CANTUS FIRMUS, SO WE MOVE AWAY FROM IT. BECAUSE SUSPENSIONS ALWAYS RESOLVE DOWN!



IN SPECIES IV, YOU'RE DEALING WITH A LOT OF LIMITATIONS WITH MELODY AND COUNTERPOINT, SO YOU WILL SOMETIMES GET TRAPPED IN A SITUATION WHERE NOTHING WILL WORK. WHEN THIS HAPPENS, YOU ARE ALLOWED TO "BREAK SPECIES": FORGET THE TIE AND SLIP INTO SPECIES II FOR A COUPLE OF NOTES.

FOR EXAMPLE, HERE WE BREAK SPECIES SO WE CAN AVOID WRITING A FUX-ENRAGING FOUR 4-3 SUSPENSIONS IN A ROW!

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DON'T GO CRAZY WITH THIS, THOUGH ... SPECIES IV COUNTERPOINT SHOULD EMBRACE SUSPENSIONS, NOT AVOID THEM. IT'S BEST TO BREAK SPECIES ONLY RARELY. UNFORTUNATELY, SOMETIMES THAT MEANS BACKING WAY UP AND CHOOSING A DIFFERENT STARTING PITCH FOR YOUR COUNTERPOINT!

