## Music Theory for Musicians and Normal People

CC-BY-ND-NC

BLT WHILE IT'S AN IMPORTANT STEP, AND A GREAT PLACE TO START, MLSIC THEORY IS
 MLICH MORE THAN JUST COMING LIP WITH NAMES FOR THINGS! WHEN COMPOSERS WRITE MLSIC - WHETHER IT'S A CLASSICALERA SYMPHONY OR A BIT OF JAPANESE POST-SHIBUYA-KEI GLITCH TECHNO - THEY ARE NOT FOLLOWING A PARTICLILAR SET OF RLLES. IF ANYTHING THEY ARE OFTEN TRYING TO

## BREAK THEM!

SO WHILE A LOT OF PEOPLE THINK MLISIC THEORY IS ABOLIT LEARNING THE RLLES FOR HOW TO WRITE MLISIC, THAT'S NOT QLITE RIGHT. MLSIC THEORISTS DON'T CREATE RLILES FOR WRITING MLSIC; THEY LOOK FOR PATTERNS IN MUSIC THAT IS ALREADY WRITTEN.

...THEORISTS ANALYZE!

WHICH LEADS TO THE MOST IMPORTANT QLESTION... THE ONE THAT, AS YOU STUDY MUSIC THEORY, YOU SHOLLD BE CONSTANTLY ASKING YOLRSELF=

## WHY?

WHY DISSECT MLSIC? WHAT'S THE POINT OF FIGLIRING OLT RLILES THAT COMPOSERS THEMSELVES WEREN'T EVEN WORRIED ABOLIT?

BECALSE SOMEWHERE IN THERE IS THE REASON WHY THAT PIECE OF MLSIC MOVES YOU.

MAYBE IT'S IN THE NOTES. MAYBE IT'S IN THE SILENCE.
MAYBE IT'S SOMEWHERE IN BETWEEN.

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\begin{array}{cc}
\text { THE REASON IT } & \text { IT MAY TAKE A } \\
\text { MAKES YOU CRY, } & \text { ONG TIME, OR } \\
\text { GIVES YOU CHILLS, } & \text { EVEN CREATE } \\
\text { REMINDS YOU OF HOME. MORE QUESTIONS } \\
\end{array}
$$

MLISIC THEORY IS FIGLIRING OLT WHAT MLSIC THEORISTS ARE GOING TO FIND IT, BECALSE... MAKES MLISIC WORK.
 <br> \title{
Notation: Pitch
} <br> \title{
Notation: Pitch
}

MLISIC NOTATION IS THE ART OF RECORDING MLISIC IN WRITTEN FORM.

MODERN MLSIC NOTATION IS A PRODLLCT OF CENTLRIES OF TRANSFORMATION... AND IT IS NEITHER EFFICIENT NOR INTLITIVE!

PITCH IS THE HIGHNESS OR
LOWNESS OF A SOLND.

FOR EXAMPLE, A FLLITE HAS A HIGH PITCH, WHILE A TLBA HAS A LOW PITCH.

A NOTE IS A WRITTEN REPRESENTATION OF A PARTICLLAR PITCH.

NOTATION IS BASED ON THE PIANO KEYBOARDi LINES AND SPACES ON THE STAFF REPRESENT the white notes on the keyboard.

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TO DISPLAY NOTES OLITSIDE THE STAFF, WE LSE SHORTENED STAFF LINES CALLED LEDGER LINES.
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TREBLE CLEF

alto clef
the clef determines what notes each staff LINE CORRESPONDS TO. THE FOLR MODERN CLEFS ARE SHOWN HERE; THE NOTE DISPLAYED ON EACH STAFF CORRESPONDS TO MIDDLE $C$.

THE SYSTEM OF MLISICAL NOTATION WE LSE IS ESSENTIALLY A STYLIZED GRAPH OF PITCH VERSLS TIME.

the five lines on which notes APPEAR IS CALLED A STAFF.

TIME
minu

THE WHITE NOTES ON THE KEYBOARD ARE LABELED WITH LETTERS FROM A TO G.


TENOR CLEF


BASS CLEF

MIDDLE $C$ IS THE $C$ THAT IS CLOSEST TO THE MIDDLE OF THE PIANO KEYBOARD.
to notate the BLACK NOTES ON THE PIANO KEYBOARD, WE LSE ACCIDENTALS, WHICH ALTER THE NOTE BY ONE OR TWO HALF STEPS.

A HALF STEP IS THE DISTANCE BETWEEN TWO ADJACENT KEYS ON THE PIANO KEYBOARD, REGARDLESS OF WHAT COLOR THE KEYS ARE.

THE DOLBLE SHARP RAISES THE NOTE BY TWO HALF STEPS.

THE SHARP RAISES THE NOTE BY ONE HALF STEP.

THE NATURAL CANCELS OUT ANY PREVIOLS ACCIDENTAL.
b THE FLAT LOWERS THE NOTE BY ONE HALF STEP.

THE DOLBLE FLAT LOWERS THE NOTE BY TWO HALF STEPS.

THESE SYMBOLS ARE PLACED TO THE LEFT OF THE NOTE THAT THEY AFFECT, AND THEY APPLY TO ALL THE NOTES ON THAT LINE OR SPACE
FOR THE REST OF THE MEASLIRE.


TWO NOTES WHICH HAVE THE SAME PITCH (FOR EXAMPLE, F SHARP AND $G$ FLAT) ARE CALLED ENHARMONICS.


## Notation: Rhythm <br> WHILE PITCH IS PRETTY CLEARLY NOTATED ON A SOMEWHAT ARCANE SYSTEM INVOLVING NOTEHEADS, STEMS AND FLAGS.

IN THIS CHART, EACH SLICCESSIVE TYPE OF NOTE IS HALF AS LONG AS THE NOTE TO ITS LEFT. NONE OF THESE NOTES HAS A STANDARD LENGTHi A half NOTE IN ONE PIECE MAY be THE SAME LENGTH AS an EIghth NOTE IN A DIFFERENT PIECE.

NOTE LENGTHS IN A PIECE ARE INDICATED BY THE TEMPO MARKING AT THE BEGINNING OF A PIECE OR SECTION.


## THE ALGMENTATION DOT IS A DOT PLACED TO THE RIGHT OF A NOTEHEAD. THOLGH SMALL, THIS DOT WIELDS SOME SERIOUS POWER= IT ADDS HALF OF THE ORIGINAL NOTE'S LENGTH! <br> MLILTIPLE DOTS CAN ALSO BE ADDED, EACH ONE ADDING HALF OF THE PREVIOLSLY ADDED VALLIE. <br> -. $=0+\rho$ <br> $0 . .=0+\rho+\rho$ <br>  <br> 

TIES ARE CLIRVED MARKS WHICH CONNECT TWO NOTES TOGETHER TO CREATE A SINGLE, EXTENDED SOLIND.

TO TIE MORE THAN TWO NOTES TOGETHER, DRAW TIES BETWEEN EACH NOTE; DO NOT LISE A SINGLE, EXTENDED TIE.

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d \rho=d \quad d=d .
$$

A TIPLET IS ANY NON-STANDARD DIVISION OF A NOTE. THESE ARE LSLIALLY WRITTEN AS A GROUIP OF NOTES DELINEATED WITH A BRACKET AND A NLIMBER SHOWING THE DIVISION BEING MADE.

MOST TUPLETS ARE SIMPLE DIVISIONS, LIKE THE TRIPLETS TO THE LEFT. BLIT ANYTHING IS POSSIBLE! CHOPIN, FOR EXAMPLE, WOLLD OFTEN GO TO TOWN WITH THESE THINGS.
 <br> \title{
Nomation Metate
} <br> \title{
Nomation Metate
}

MLISIC THEORY FOR MLISICIANS AND NORMAL PEOPLE BY TOBY W. RUSH
A FLINDAMENTAL FEATLIRE OF MOST PIECES OF MUSIC IS A CONSISTENT RHYTHMIC PLILSE.

THERE ARE TWO TYPES OF BEAT LINITS: THOSE CONTAINING TWO DIVISIONS, CALLED SIMPLE BEAT LNITS...
$\theta 0$ ...AND THOSE CONTAINING
THREE DIVISIONSI
CALLED COMPOUND BEAT LINITS.

IN MLISIC, bEATS ARE ORGANIZED INTO PATTERNS OF ACCENTED AND LINACCENTED BEAT LINITS. IN FACT, IF YOU LISTEN TO A SEQLIENCE OF REPEATED NOTES, YOLR BRAIN WILL PROBABLY START TO PERCEIVE THE NOTES AS GROLIPS OF TWO, THREE, OR FOLIR, EVEN IF NO ACCENTS ARE PRESENT!
 and they are delineated with barlines.

THE ORGANIZATION OF BEAT LINITS AND MEASLIRES IN A PIECE IS CALLED METER, METER IS DESCRIBED BY TWO NLIMBERS PLACED AT THE BEGINNING OF THE PIECE: THE TIME SIGNATLIRE.

## SIMPLE TIME SIGNATLRES ARE EAS\%

THE TOP NLMMBER INDICATES THE NLIMBER OF BEATS IN A MEASLIRE.

THE BOTTOM NLMBER INDICATES THE TYPE OF NOTE WHICH SERVES AS THE BEAT LINIT.


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

COMPOLIND TIME SIGNATLIRES ARE KIND OF LYING TO YOH.
THE TOP NLMBER INDICATES THE NLMBER OF DIVISIONS IN A MEASLIRE. TO GET THE NLMBER OF BEATS, DIVIDE IT BY THREE.

THE BOTTOM NLMBER INDICATES THE TYPE OF NOTE WHICH SERVES AS THE DIVISION. TO GET THE BEAT LINIT, LISE THE NOTE THAT IS EQLAL TO THREE OF THESE NOTES. IN A COMPOLIND METER, THE BEAT LINIT IS ALWAYS A DOTTED NOTE!

IN FACT, WOLLLDN'T THIS BE AN EASIER WAY TO NOTATE COMPOLIND METERS?

BY LOOKING AT THE TOP NLIMBER OF THE TIME SIGNATLIRE, YOL CAN TELL TWO THINGS ABOLT THE METER: WHETHER IT'S SIMPLE OR COMPOLIND, AND HOW MANY BEATS ARE IN A MEASLIRE.

NOTES THAT HAVE FLAGS CAN BE GROLIPED TOGETHER BY LSING BEAMS IN PLACE OF FLAGS.


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


HOWEVER, BEAMING IS ONLY LISED TO GROLIP NOTES WITHIN BEATS. FOR THE MOST PART, YOL SHOLLDN'T BEAM NOTES BETWEEN BEATS, NOR SHOLLD YOU TIE NOTES WITHIN BEATS.








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DOING STIFF THE SPARKY WAY IS ALWAYS FUN!


TAKE THIS MELODY, FOR EXAMPLE...
LET'S FIRST REMOVE ALL THE DUPLICATE NOTES, REGARDLESS OF WHICH OCTAVE THEY'RE IN.


NEXT, LET'S PLT THE NOTES IN ALPHABETICAL ORDER, STARTING ON THE NOTE THAT THE MELODY SOLINDED LIKE IT WAS CENTERING ON.


THERE ARE ACTUALLY MANY DIFFERENT TYPES OF SCALES, EACH WITH A DIFFERENT PATTERN OF WHOLE STEPS AND HALF STEPS.

LIKE THE BOARD ON WHICH A PAINTER HOLDS THE BITS OF PAINT BEING LSED IN THE PAINTING BEING CREATED.


IN MLSIC, THIS "PALETTE" IS CALLED
A SCALE. THOLIGH WE HSHALLY WRITE
SCALES FROM LOW TO HIGH, THE ORDER IS ACTLALLY LINIMPORTANTI IT'S THE NOTES CONTAINED IN THE SCALE THAT HELP MAKE A PIECE SOLIND THE WAY IT DOES.
THIS PARTICLLAR
ARRANGEMENT, WHERE
HALF STEPS OCCLR BETWEEN
STEPS THREE AND FOUR AND BETWEEN STEPS SEVEN AND EIGHT (OR BETWEEN SEVEN AND ONE, SINCE EIGHT AND ONE ARE THE SAME NOTE), IS CALLED THE MAJOR SCALE.

(THIS SCALE, BY THE WAY, IS CALLED THE G MAJOR SCALE, BECALISE IT STARTS ON G.)

KNOWING THIS FORMLLLA, YOU CAN CREATE A MAJOR SCALE ON ANY NOTE!



BUT REMEMBER... WITH GREAT POWER COMES GREAT RESPONSIBILITY!

Key Signatures
IF YOU START WRITING MAJOR SCALES AND PAY ATTENTION TO THE ACCIDENTALS THAT OCCLR, 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 THROLGH THE KEY WITH SEVEN FLATS: THE FLATS ACCRLE IN A SPECIFIC ORDER. SAME WITH THE SHARP KEYS!

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

SINCE WRITING AN ENTIRE PIECE IN C SHARP MAJOR WOLLD HAVE BEEN A SURE-FIRE WAY TO GET CARPAL TLINNEL SYNDROME WITH ALL THE SHARPS INVOLVED, COMPOSERS PRETTY QLICKLY CAME LIP WITH A WAY TO SIMPLIFY THINGS: KEY SIGNATLIRES.

A KEY SIGNATURE IS A GROLP OF ACCIDENTALS PLACED AT THE BEGINNING OF EVERY LINE OF MLISIC, ILIST TO THE RIGHT OF THE CLEF, THAT INSTRLLCTS THE PERFORMER TO APPLY THOSE ACCIDENTALS TO EVERY CORRESPONDING NOTE IN THE PIECE LINLESS SPECIFIED OTHERWISE.


FOR EXAMPLE, THIS KEY SIGNATLRE INDICATES THAT EVERY F, $C$, AND $G$ IN THE PIECE SHOLILD 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 PARTICLLLAR PATTERN OF
pLACEMENT THAT VARIES SLIGHTLY DEPENDING ON THE CLEF BEING LSED! IF YOU DEVIATE FROM THIS, YOL, AS A COMPOSER, WILL BE MOCKED!
TENOR CLEF SHARPS! WHAT'S YOUR PROBLEM? YOL NEED TO CONFORM!

Ab


BEAD

Bb

$B$

cb


BEADGCFb
$c$


C\#


FCGDAEB\#

Db


BEADG
$D$


Eb


BEA
$E$


B

F\#


FCGDAE

Gb


BEADGC
$G$

$F$

# The Circle of Fifths 

THIS CHART, CALLED THE CIRCLE OF FIFTHS, DISPLAYS EACH KEY AS A SPOKE ON THE CIRCLE, BEGINNING WITH C MAJOR AT THE TOP AND ADDING ACCIDENTALS, ONE AT A TIME, TO THE KEY SIGNATLURES AROLIND THE PERIMETER.

THEORISTS FIND IT CONVENIENT TO ORGANIZE ALL THE POSSIBLE KEY SIGNATLRES INTO A CHART THAT SHOWS THEIR RELATIONSHIP TO ONE ANOTHER.

WE'LL RETLIRN TO THIS CHART AS WE CONTINLIE LEARNING ABOLIT


# Diatonic Intervals 

MLSIC THEORY FOR MLSICIANS AND NORMAL PEOPLE BY TOBY W. RLSH

THE MOST BASIC WAY WHICH WE IDENTIFY DIFFERENT INTERVALS IS BY COLINTING THE STEPS BETWEEN THE TWO NOTES.


SPECIFICALLY, WE COLINT SCALE DEGREES, BLT THE EASIEST WAY TO DO IT IS TO COLNT LINES AND SPACES ON THE STAFF.


SPACE IS CALLED A LINISON.

TWO NOTES ON THE SAME LINE OR

THAT'S LATIN FOR "ONE SOLND"!

WHEN COLINTING, BEGIN WITH THE BOTTOM NOTE AS ONE AND COLNT LNTIL YOU REACH THE TOP NOTE.


WHEN COLNTING THE LINES AND SPACES, WE CAN SAFELY IGNORE ANY ACCIDENTALS.

THIS INTERVAL IS ALSO A SEVENTH... WEILL DISCUSS HOW IT'S DIFFERENT VERY SOON! <br> \title{
Perfect Intervals
} <br> \title{
Perfect Intervals
}

MLISIC THEORY FOR MLISICIANS AND NORMAL PEOPLE BY TOBY W. RUSH
THE DISTANCE OF AN INTERVAL IS ONE PART OF ITS NAME, BLT THERE'S MORE= EVERY INTERVAL HAS ANOTHER QLALITY TO IT, WHICH WE'LL CALL INFLECTION. INFLECTION IS A BIT HARDER TO LNDERSTAND, PARTLY BECALISE IT DEPENDS ON THE TYPE OF INTERVAL. SO LET'S START BY LOOKING AT UNISONS, FOLRTHS, FIFTHS AND OCTAVES.

| SOME THEORISTS LSE |  |
| :---: | :---: |
| THE TERM QLIALITY FOR |  |
| THIS... THAT'S COOL TOO. |  |



## LINISONS AND OCTAVES

ARE THE EASIEST TO LABEL: IF THE TWO NOTES ARE THE SAME (FOR EXAMPLE, $B$ FLAT AND E FLAT), THEN THE INFLECTION IS PERFECT: SLCH AN INTERVAL IS CALLED A PERFECT LINISON OR A PERFECT OCTAVE.

## FOLRTHS AND FIFTHS

REQLIRE A LITTLE MORE EXPLAINING.
IF YOU LOOK AT ALL THE FOLRTHS AND FIFTHS YOU CAN CREATE USING ONLY THE WHITE NOTES ON THE PIANO KEYBOARD (IN OTHER WORDS, LISING ONLY NOTES WITHOUT ACCIDENTALS):


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

AN INTERVAL THAT IS A HALF-STEP LARGER THAN PERFECT IS CALLED AN ALGMENTED INTERVAL.


A5


A8
YOU CAN GO FURTHER, TO DOLBLY ALGMENTED AND DOLBLY DIMINISHED INTERVALS, BUT... DO YOU REALLY WANT TO?

A1
d4


d8

AND THERE'S

d5



NO SLCH THING AS A DIMINISHED LINISON...

JUST LIKE TWO THINGS CAN'T BE NEGATIVE TWO FEET AWAY FROM EACH OTHER!

AN INTERVAL THAT IS A HALF-STEP SMALLER THAN PERFECT IS CALLED A DIMINISHED INTERVAL.


# The Minor Scales 

THIS KEY IS DEFINED BY A KEY SIGNATURE OF NO SHARPS AND FLATS, BLT ALSO BY THE FACT THAT IT CENTERS AROUND C.


THERE ARE ACTLILLLY TWO THINGS THAT DEFINE A KEY= THE KEY SIGNATURE IS THE MOST OBVIOUS ONE, BLT ANOTHER IMPORTANT PART OF A KEY IS THE TONIC... THE NOTE AROUND WHICH THE KEY CENTERS.

BLT WHAT IF WE CHANGE THE TONIC? WHAT IF WE LIE THE SAME NOTES FOR THE KEY SIGNATURE, BLT CHANGE THE NOTE THAT THE KEY IS CENTERED AROUND?

IF WE CENTER THE KEY AROUND THE SIXTH SCALE DEGREE OF THE MAJOR SCALE, WE GET A NEW SCALE: THE MINOR SCALE.


THIS SCALE IS GREAT FOR BUILDING CHORDS, SO WE REFER TO IT AS THE HARMONIC MINOR SCALE. HOWEVER, COMPOSERS DIDN'T LIE IT FOR WRITING MELODIES, BECAUSE IT HAD A PROBLEM= AN ALIGMENTED SECOND BETWEEN THE SIXTH AND SEVENTH SCALE DEGREES.

> SO, FOR MELODIES, THEY MADE ANOTHER CHANGE: THEY ADDED ANOTHER ACCIDENTAL TO RAISE THE SIXTH SCALE DEGREE BY A HALF-STEP.

NOW WE ONLY HAVE WHOLE STEPS AND HALF-STEPS!

NOW, REMEMBER... THE REASON WE RAISED THE LEADING TONE IN THE FIRST PLACE WAS TO CREATE TENSION FROM THE SEVENTH SCALE DEGREE TO TONIC. BLT 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.

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!

# We SPRRYy muIc Therry <br> Dear Sparky: 



What does it mean when music theorists talk about "relative minor" and "parallel minor"? In what ways can major and minor keys be connected?

WHEN TWO KEYS THAT HAVE THE SAME KEY SIGNATLIRE BLT DIFFERENT TONIC NOTES, WE SAY THEY'RE RELATED.

SINCE D MINOR HAS THE SAME KEY SIGNATLRE AS F MAJOR, WE SAY THAT D MINOR IS THE RELATIVE MINOR OF F MAJOR.


SLIRE, D MINOR MIGHT LISE A C SHARP AS A RAISED LEADING-TONE, BLT WE DON'T CONSIDER THAT AS PART OF THE KEY SIGNATLIRE.


F MAJOR

e MINOR

IT'S CONVENIENT TO ADD MINOR KEYS TO THE CIRCLE OF FIFTHS; THEY'RE LSLALLY PLACED ON THE INSIDE OF THE CIRCLE IN LOWER CASE.

BECALISE RELATIVE KEYS SHARE THE SAME KEY SIGNATURE, THEY ALSO SHARE THE SAME POSITION ON THE CIRCLE OF FIFTHS!

PARALLEL KEYS HAVE DIFFERENT KEY SIGNATLIRES, BLIT SEEING THEM ON THE CIRCLE OF FIFTHS ILLUSTRATES THEIR CONSISTENT KEY RELATIONSHIP: MINOR KEYS ALWAYS APPEAR THREE DEGREES COLINTERCLOCKWISE FROM THEIR PARALLEL MAJOR KEY.

SO TO FIND THE KEY SIGNATLIRE FOR A MINOR KEY, START WITH THE MAJOR KEY SIGNATLRE WITH THE SAME TONIC AND EITHER ADD THREE FLATS, SLIBTRACT THREE SHARPS, OR SOME COMBINATION OF BOTH!

| (27) | (17) | , | (1) |
| :---: | :---: | :---: | :---: |
| $f^{\# \#}$ | $\overbrace{8}^{\#}$ | $\begin{gathered} 2^{3} \\ \theta^{2} \end{gathered}$ | $+b \frac{7}{6}$ |
|  | - | e | e |

PARALLEL KEYS, ON THE OTHER HAND, ARE KEYS THAT HAVE THE SAME TONIC NOTE, buT DIFFERENT KEY SIGNATURES.

SO F MINOR IS THE PARALLEL MINOR OF F MAJOR!

 AND RHYTHM!
DINaMICS ARE STMBOLS That show
$\boldsymbol{f} . f f \quad \boldsymbol{f f} \quad \boldsymbol{f}$

$\begin{array}{ll}0 & \text { M号 }\end{array}$

GRADLIL DYNAMIC CHANGES ARE
INDICATED WITH HAIRPIN SYMBOLS OR THE ITALIAN TERMS CRESCENDO (INCREASE VOLLIME) OR DIMINLIENDO (DESCREASE VOLLMME).
cresc.
DYNAMICS ARE LSLLALLY PLACED BELOW THE STAFF ON INSTRLMMENTAL PARTS, AND ABOVE THE STAFF FOR VOCAL PARTS... TO STAY OLT OF THE WAY OF THE LYRICS!

| ARTICLLLATIONS ARE SYMBOLS THAT SHOW HOW TO TREAT SPECIFIC NOTES. |  |  | OTHER SYMBOLS AFFECT GROLIPS OF NOTES... |  |
| :---: | :---: | :---: | :---: | :---: |
| ACCENT | > | WITH ADDITIONAL EMPHASIS | ALL' OTTAVA= PLAY THE NOTES AN OCTAVE HIGHER OR LOWER, DEPENDING ON WHERE THE SYMBOL IS. (TWO OCTAVES IS $15^{\mathrm{ma}}$, AND THREE OCTAVES IS $22^{\mathrm{ma}!}$ ) |  |
| STACCATO |  | SHORT AND DETATCHED | $\qquad$ $\Lambda$ $\square$ <br> PEDALING: ON THE PIANO, THIS SYMBOL INDICATES WHEN THE DAMPER PEDAL SHOLLD BE HELD DOWN, ALLOWING THE PIANO STRINGS TO RING FREELY. OLDER SCORES LSE Teo. FOR DOWN AND * FOR LP. |  |
| TENLTO |  | EMPHASIZED AND HELD FOR FLLLL VALLE |  |  |
| MARCATO | $\wedge$ | SHORT AND ACCENTED |  |  |
| STACCATISSIMO | V | VERY SHORT AND FORCEFLL |  |  |
| SFORZANDO | sfz | SUDDENLY LOUD AND ACCENTED |  |  |
| FERMATA | $\bigcirc$ | HOLD LONGER THAN INDICATED |  |  |
| TREMOLO | \% | RAPIDLY ALTERNATE BETWEEN TWO NOTES | in MOST MLSIC IT'S A SLLIR, GROLPING NOTES WHICH SHOLLD BE PLAYED SMOOTHLYAND CONNECTED! | FOR BOWED STRINGS LIKE VIOLIN, IT'S A BOW MARKING, SHOWING NOTES THAT SHOLLD BE PLAYED WITHOLT SWITCHING |
| LP BOW | V | (BOWED INSTRLMMENTS) START AT TIP OF BOW |  |  |
| DOWN BOW | n | (BOWED INSTRLMENTS) START AT FROG OF BOW | in vocal parts, iT SHOWS MELISMAS: GROLIPS OF NOTES SUNG ON A SINGLE SYLLABLE! | THE BOW'S DIRECTION. |
| TRILL | ¢r | RAPIDLY ALTERNATE TWO ADJACENT NOTES |  | IN ANY SCORE, IT CAN ALSO BE LSED ON LARGER GROLIPS OF NOTES, WHERE IT SERVES AS |
| ARPEGGIO | \} | "ROLL" CHORD: NOTES ADDED SEPARATELY |  | THE PERFORMER SEE THE OVERALL SHAPE OF THE MLSIC! |

## Complex Meter

SIMPLE METERS AND COMPOLIND METERS ARE BOTH LSED QLITE A BIT IN THE COMMON PRACTICE PERIOD, BLT THEY WERE RARELY FOLIND TOGETHER... MOST PIECES EXCLUSIVELY LSED ONE OR THE OTHER!

ON THE RARE OCCASION THAT THEY WERE COMBINED, IT WAS GENERALLY AS MIXED METER, WHEN THE METER CHANGES FROM ONE measlire to the next.

CONSISTENT ALTERNATIONS LIKE THIS ARE OFTEN WRITTEN WITH TWO TIME SIGNATLIRES AT THE BEGINNING, LIKE THIS:

BLT TWENTIETH-CENTLRY COMPOSERS - ESPECIALLY THOSE WHO WERE WORKING IN A STYLE CALLED PRIMITIVISM, WHICH FEATLLRED PRIMAL, LNPREDICTABLE RHYTHMS WOLLD TAKE THE COMBINATION OF SIMPLE AND COMPOLND RHYTHMS TO THE NEXT LEVEL!

## SIMPLE METER

 BEAT LNIT DIVISIBLE BY TwobEAT SHOWN BY LINDOTTED NOTE
 COMPOLND METER, WHEREFORE ART THOH COMPOLND?


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