## Basic Mensural Notation Reference <br> by Ted Dumitrescu（MAY 2004）

## I．RHYTHM

NOTE SHAPES

| Name | Maxima | Long | Breve | Semibreve | Minim | Semiminim | Fusa | Semifusa |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Note | ๆ | F | 日 | $\checkmark$ | $\checkmark$ | $\downarrow$ or $\wp$ | $\oint$ | 1 |
| Rest |  | 王or | इ | 亏 | I | $\overline{\bar{\mp}}$ | $\overline{\overline{=}}$ | $\overline{\bar{\square}}$ |

## LIGATURES

## 1．Basic ligatures with no stems

a．Two－note ligatures：

b．Ligatures of more than two notes：
－Beginning and ending notes follow the rules for two－note ligatures
－Every note in the middle is a Breve（ $\boxminus$ ）

Example：


L вввввв

## 2．Stems and other effects

a．At the beginning of a ligature：
－An upward stem to the left always makes the first two notes Semibreves（ $(\stackrel{)}{ }$

Examples：
－A downward stem to the left makes the first note a Breve（ $\boldsymbol{\text { a }}$

Example：

b．At the middle or end of a ligature，a stem is always downward，and turns the note to the left into a Long（7）

Examples：



L BL

## STANDARD MENSURATIONS AND PROPORTIONS

## 1．Mensuration

－$O$ and $C$ are the signs of perfect and imperfect tempus：i．e．，whether a Breve（ $\boldsymbol{\square}$ ）contains 3 or 2 Semibreves（ $\stackrel{)}{ }$ by default
－Presence or absence of a dot $(\bullet)$ in the center of the tempus sign indicates major or minor prolation：i．e．，whether a Semibreve（ $\downarrow$ ）contains 3 or 2 Minims（ $(\downarrow)$ by default

| C（imperfect tempus，minor prolation）： | $日=\diamond \downarrow=\downarrow \downarrow \downarrow \downarrow$ |
| :---: | :---: |
| ¢（imperfect tempus，major prolation）： | $日=\diamond \downarrow=\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ |
| O（perfect tempus，minor prolation）： | ロ＝$\downarrow \bullet \diamond=\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ |
| $\odot$（perfect tempus，major prolation）： | $\pm=\diamond \diamond \diamond=\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ |

－Major modus refers to the number of Longs $(\ddagger)$ in a Maxima $\left.{ }^{(7)}\right)$（perfect is 3，imperfect is 2）
－Minor modus refers to the number of Breves（ $\boxminus$ ）in a Long（ $\ddagger$ ）（perfect is 3，imperfect is 2）
－Modus is detected most easily by observing how many Long rests are in a Maxima rest，and how many Breve rests are in a Long rest：

Imperfect major modus，
Imperfect minor modus
$\bar{I}$

Imperfect major modus， Perfect minor modus


Perfect major modus， Imperfect minor modus

III

Perfect major modus， Perfect minor modus \＃

## 2．Other signs and proportions

－Modus cum tempore signs use the circle to show minor modus and a numeral to show tempus：
C2＝Imperfect minor modus，Imperfect tempus $\quad$ C3＝Imperfect minor modus，Perfect tempus
$\mathrm{O} 2=$ Perfect minor modus，Imperfect tempus $\quad \mathrm{O} 3=$ Perfect minor modus，Perfect tempus
－Under these mensurations，the tempo is quicker and the beat is on the Breve
－A numeral or pair of numerals changes the speed of a part proportionally；e．g．， 32 changes the speed so that 3 notes are sung in the time of 2 （usually Semibreves or Minims）
－Shorthand proportion signs：
כ $=4: 3$
$3=3: 2$
$2=2: 1$
－When the sign $\mathbb{C}$ or $\oplus$ appears in one or more voices simultaneously with $C$ or $\bigcirc$ in other voices，the music in $\mathbb{C}$ or $\oplus$ is twice as fast as the other voices（ $2: 1$ diminution）
－By the late 15 th century $\mathbb{C}$ or $\Phi$ in all voices at once often indicates some type of speeding up

## 1．Imperfection：Taking away $1 / 3$ of the length of a ternary note

| From the back（＂a parte post＂）： | From the front（＂a parte ante＂）： |
| :---: | :---: |
| By smaller values： $\begin{gathered} O \boxminus d d a=o \quad d \cdot \mid o \cdot \\| \\ c \downarrow d \diamond d \downarrow d a=d d d d d d o \cdot \\| \end{gathered}$ | From both sides： |
| ＂Like before like＂（＂similis ante similem＂）is never imperfected： $c d o \Delta d d d \Delta a=d d \cdot d\|d d d d \cdot\| o \cdot \\|$ | By＂remote parts＂（＂a partibus remotis＂）： |
| Never by a ternary group： $\begin{gathered} 0 \boxminus \Delta \Delta \Delta a=o \cdot\|d d d\| o \cdot \\| \\ \operatorname{coddd\otimes \Delta a}=d \cdot d d d\|d \cdot d \cdot\| \mathbf{o} \cdot \\| \end{gathered}$ | Rests are never imperfected（but they can imperfect notes）： |

## 2．Alteration：Doubling a note value to complete a ternary grouping

| $\begin{aligned} O \diamond \Delta 日 & =d \mathbf{o} \mid \mathbf{o} \cdot \\| \\ \subset \downarrow \downarrow \Delta 日 & =d d d \cdot \mid \mathbf{o} \cdot \\| \end{aligned}$ | Between two perfect notes，always occurs： |
| :---: | :---: |
| Always the last possible note： $\bigcirc \diamond \Delta \Delta \Delta \Delta \text { 日 }=d d d\|d \mathbf{o}\| \mathbf{o} \cdot \\|$ | Rests are never altered： |

## DOTS

## 1．Dot of Addition（＂punctus augmentationis／additionis＂）

－Increases the length of a note by half（like the modern dot）
－Can only be applied to binary note values（e．g．，a Semibreve under O）

$$
\diamond \diamond \cdot d 日=d d \cdot d \mid \mathbf{o} \cdot \|
$$

## 2．Dots of Division／Perfection／Alteration／etc．

－Act as measure dividers for ternary values（e．g．，a Semibreve under $\subset$ ）
－In order to separate ternary groups，can force imperfection and alteration or prevent them
○日か．ロロ＝o d $\left\|_{0}\right\|$

$$
c \diamond b \cdot b d \Delta \Delta 日=d \bullet d d|d \cdot d \cdot| \mathbf{o} \cdot \|
$$

－The rare punctus reductionis or syncopationis（dot of syncopation）can appear in the middle of a ternary group；by preventing alteration or imperfection it causes syncopation

$$
\subset \downarrow \cdot d \diamond d \cdot d a=\downarrow d d \bullet d \mid \mathbf{o} \cdot \|
$$

$\qquad$

## 1．Imperfection coloration

－At ternary mensural levels，colored notes are always imperfect and cannot be doubled through alteration
－Colored notes are often found in groups adding up to pairs of ternary measures
－Dots in coloration groups are dots of addition（affecting the imperfect，unaltered values）

－Such groups fall at measure beginnings，causing alteration if necessary

$$
\bigcirc \diamond \Delta \text { 国日 }=d_{0}\left|\mathbf{o} \cdot \downarrow_{0} \mathbf{o}\right| \mathbf{o} \cdot \|
$$

## 2．Proportional coloration

－For binary note values，coloration takes away $1 / 3$ of the value（creating modern triplets）
－The rules for imperfection coloration still apply（all notes imperfect，no alteration）

－Some special cases（later 15th and 16th centuries）：
$C / O \bullet \downarrow=\downarrow \cdot \downarrow$
$\mathbb{C} \boxtimes \bullet=\diamond \cdot \downarrow$
$\mathbb{C} \boldsymbol{m} \downarrow=\diamond \cdot \downarrow$

## II. PITCH



- In any hexachord, the step $m i-f a$ is a semitone; every other step is a whole tone
- The sign b ("round b") marks a note as $f a$, which means it is only a semitone above the step below it; usually this means the marked note must be flattened by a semitone

- The sign $\ddagger$ ("square b") marks a note as $m i$, which means it is a semitone below the step above it; this usually causes the marked note to be sharpened by a semitone, cancelling the effect of $b$ if necessary

- The sign $\otimes$ ("dyesis") simply causes a note to be sharpened by a semitone, without necessarily changing the hexachord syllable; it is often used loosely, however, with the same meaning as 4



## DIRECTED PROGRESSIONS

- In counterpoint, when an imperfect consonance (3rd, 6th) moves to a perfect consonance (unison, 5th, octave), the imperfect consonance should be performed as major or minor in order to approach the perfect consonance with the smallest movement (e.g., a 6th expanding to an octave should be major, a 3rd contracting to a unison should be minor)
- Sharps and flats can be performed to ensure this type of "closest approach"

- The "returning note" melodic phrases re ut re, sol fa sol, and la sol la should be performed with a sharp leading tone (raising the lower neighbor note by a semitone)
- Such melodic phrases often appear in ornamented forms, which require the same sharpening



## PERFECT INTERVALS IN COUNTERPOINT

- In counterpoint, "false consonances" (augmented and diminished perfect consonances) between two voices are to be avoided: augmented and diminished 5ths, octaves, unisons
- If the default reading produces a false consonance, one voice should lower its pitch by a semitone and call that note $f a$, which will produce a perfect consonance



## PERFECT MELODIC INTERVALS

## 1. Melodic phrases

- If a melodic phrase outlines a tritone (an augmented 4th, e.g., F fa - \& mi), the higher note should be lowered by a semitone and called $f a$, to make a perfect 4th

$\downarrow$

- If the phrase continues by step in the same direction to complete a melodic 5th, no flattening is necessary



## 2. Leaps

- Leaps of a 4th, 5th, and octave should be rendered as perfect intervals, using flattening (with the syllable $f a$ ) if necessary

$\downarrow$


