## BÉLA BARTÓK'S AXIS SYSTEM

## INTRODUCTION

$\square$ Béla Bartók's axis system was first published by Ernö Lendvai, one of his disciples, after performing an exhaustive analysis of his work.
$\square$ In short, it says that, if we are in the C Major key, the chords having the Tonic harmonic function are the following:

- C and Cm
- Their relative chords: Am and Eb , and also A and Ebm
- The relatives of these last chords: $\mathrm{F} \# \mathrm{~m}$ and Gb (or $\mathrm{F} \#$ )


## TONIC AXES IN C MAJOR

$\square$ We can represent these 8 chords in a cycle of fifths:

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## THE OTHER AXES IN C MAJOR

$\square$ The same reasoning can be applied to the chords with Dominant function, which will be:

- G and Gm
- Their relative chords: $E m$ and $B b$, and also $E$ and $B b m$
- The relatives of these last chords: $\mathrm{C} \# \mathrm{~m}$ and Db (or $\mathrm{C} \#$ )
- Similarly, the chords with Subdominant function will be:
- F and Fm
- Their relative chords: $\operatorname{Dm}$ and $A b$, and also $D$ and $A b m$
- The relatives of these last chords: Bm and Cb (or B )


## DOMINANT AXES IN C MAJOR

$\square$ The 8 Dominant chords in a cycle of fifths:

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## SUBDOMINANT AXES IN C MAJOR

$\square$ The 8 Subdominant chords in a cycle of fifths:

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## HARMONIC FUNCTIONS

$\square$ Therefore, in each key we can clasify the 24 Major and minor chords into 3 groups of 8 chords:

- 8 chords with Tonic function (Group T)
- 8 chords with Dominant function (Group D)
- 8 chords with Subdominant function (Group S)
$\square$ Thus, we have a sequence of S - T - D functions that repeats itself in a cyclic way, as can be seen in the next figure.


## HARMONIC FUNCTIONS

$\square$ Harmonic functions in C Mayor:

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## HARMONIC FUNCTIONS

$\square$ On this representation, the 8 chords making up a group are placed $90^{\circ}$ apart, that is, they are separated as much as possible.
$\square$ However, since they have the same harmonic function, there should exist an alternative representation where these chords appear grouped, that is, next to each other.
$\square$ Precisely, this is what occurs on the Harmonic Wheel, where each of these groups takes up a circular sector, as can be seen:

## HARMONIC FUNCTIONS



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$\square$ Finally, let us observe that group $D$ is to the right of group $T$, as well as group $T$ is to the right of group $S$. This means that group $T$ acts as the Dominant of group $S$.
$\square$ But group $S$ is to the right of group $D$ (see next figure), so group $S$ acts as the Dominant of group $D$, thus completing the Dominant relationships:

[^0]
## HARMONIC FUNCTIONS

T



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