

# Morph Scales (two fundamentals)

Ernst Oosterveld

The idea is to have a scale build on two fundamentals (root keys). I came up with a simple solution: For each fundamental add 3 other notes. Let's select the perfect 4th, 5th and major 7th. In C this means: C, f, g, b. Now we can combine two fundamental sets and we may find out that there are 6 types: The notation for these Morph Scales is as follows :

Fundamental-1 add the '%' symbol and Fundamental\_2.

Let's show the six types :

C%Db: (C, F, G, B) + (Db, Gb, Ab, C) = (C, Db, F, Gb, G, Ab, B) 7 notes.

C%D: (C, F, G, B) + (D, G, A, C#) = (C, C#, D, F, G, A, B) 7 notes

C%Eb: (C, F, G, B) + (Eb, Ab, Bb, D) = (C, D, Eb, F, G, Ab, Bb, B) 8 notes

C%E: (C, F, G, B) + (E, A, B, D#) = (C, D#, E, F, G, A, B) 7 notes

C%F: (C, F, G, B) + (F, Bb, C, E) = (C, E, F, G, Bb, B) 6 notes

C%F#: (C, F, G, B) + (F#, B, C#, E#) = (C, C#, F, F#, G, B) 6 notes

C%G is the same scale as G%C. So it is C%F transposed to G.

You can notate C%E or E%C, it is the same Morph Scale. As a rule I use the first fundamental as the root note in the bass, so in that sense there is a difference between C%E and E%C. If you want another root note notate it like this C%E/F (F in the bass)

In the composition 'DoubleStrings', which I wrote over 7 concerts in the ZEQ-Attack serie "Stemmingswisselingen" (MoodSwings) starting from october 2007 by adding voices for every guest player, I have used these Morph Scales for the first time.

## 1. C + {Db, D, Eb, E, F, F#} Keep I, IV, V, VII ( % )

C (I, IV, V, VII)      Db      D      Eb

5      E      F      F#

### Resulting Morph Scales are:

8      C%Db (7 notes)      C%D (7 notes)

10      C%Eb (8 notes)      C%E (7 notes)

12      C%F (6 notes)      C%F# (6 notes)

