

27 March '25

→ Practices Janta, Dhathru swaras

→ HD: (1) Practice more

(2) Practice Janta swaras in
Dheerasamkavabharanam from
Sangeetha vidya-bodhini

(3) Fix the AI English transcription

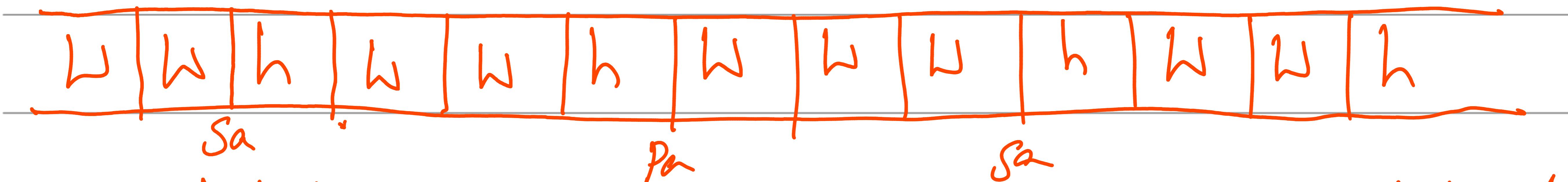
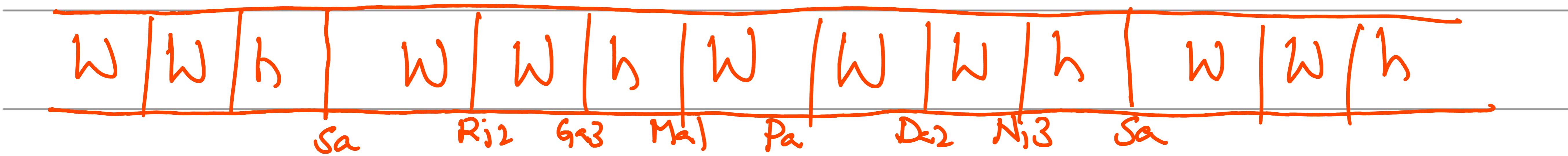
for (2)

→ HD: Sangeetha vidya-bodhini English translation
— change comments to text edits (add)

→ HW: Finish Hasat Ali song HW from
last class (add beats + swaras)

→ Graha Bhedham:

→ 29th melakartha → Write original and the shifted
steps, one below the other like
this.



1 step left shift
Sa → Pa is 3W not 3.5L; So not melakartha

No. of shifts to check :

(\Rightarrow different steps for a raaga)

abcd c f g | a b c d e f g | a b c d e f g | g (original)
sa sa

abcdefg a b c | d e f g | a b c | d e f g
sa set (3 steps to right from the original)

abc | defg a b c | d e f g | a b c d e f g
(4 steps to the left from original)

So, 3 steps to left is the same as $7 - 3 = 4$ steps to the right.

So, to check all grashbhedams for a raag,
we can only check upto 3 shifts on the right and left (total 7 shifts)

Because 5 shifts to right = $7 - 5 = 2$ shifts
to left

7 shifts to right or left = original
yaaga

(Or) we can just treat this as modulo
division with $7 \text{ } (\% 7)$. So, we
can check 1, 2, 3, 4, 5, 6 shifts only
to the right. (or only to the left)

Steps to find grahambedham:

- (1) Find the steps for the raaga, and write it with 3 extra steps from the previous cycle on the left and 3 extra on the right from next cycle.
- (2) Do this in excel, with each step in a separate box. And mark the raaga's cycle start to end in a different color.
- (3) Copy this row six more times for all the six shifts. And in each case, color the seven boxes from start to end.

(4) Check Sa to Pa is 3.5L steps
and Pa to Sat is 2.5L steps.

Otherwise it's not melakartha.

(5) Check all the other swaras also to
make sure you are not getting
something like Sa^W, Ri², Ma¹, Re²,
Pa¹, Da¹, Ni³, Sa^T
_h _{lh} _h

HW: Do this to find grabbedhams for all
72 melakarthas in excel / table in gdoc

→ See example for melakartha 1 in
google document.

HW: Do this whole exercise in Python.