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The Go APE Aural Piano Tuning System©

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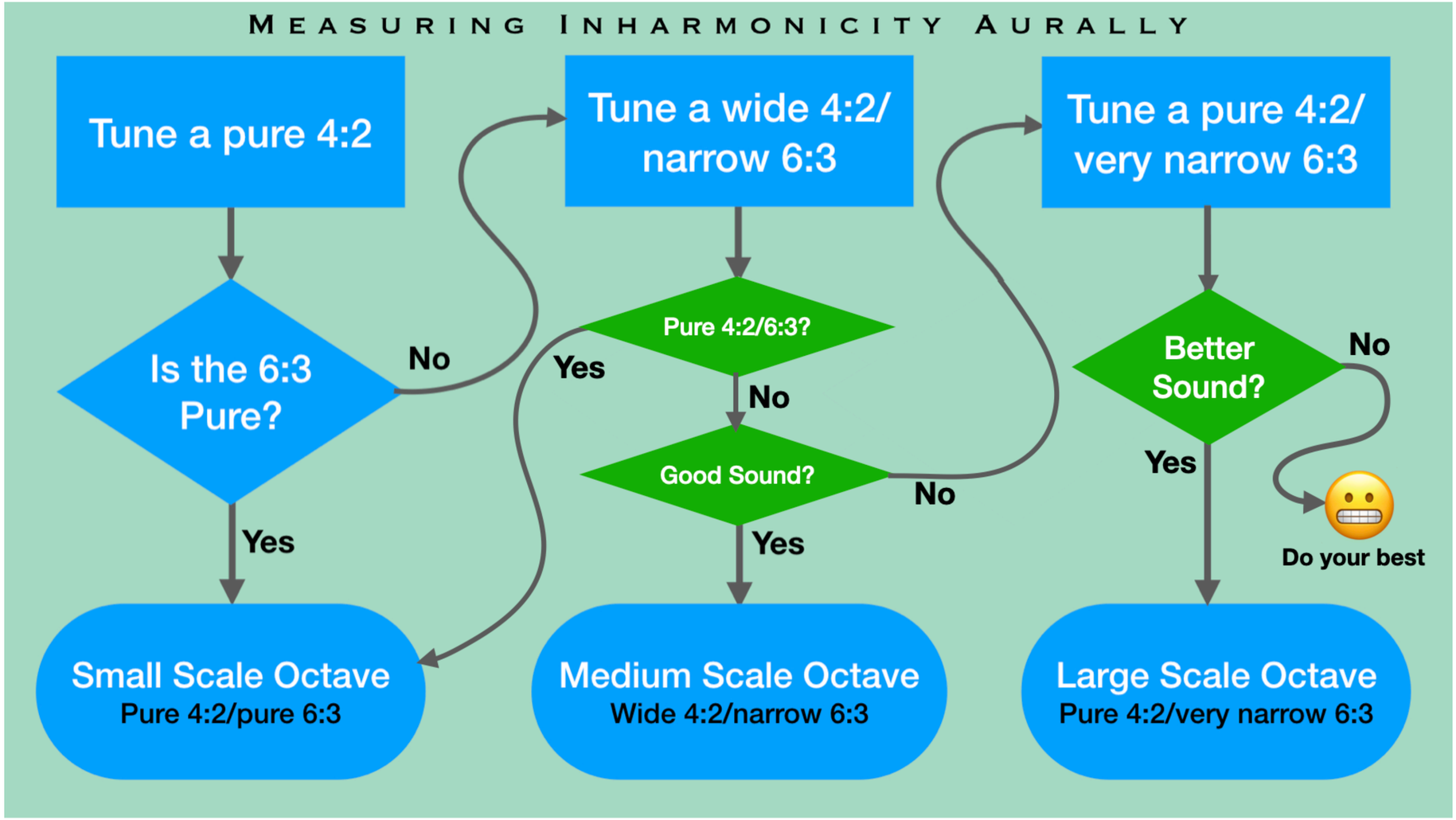
Reason, not just routine | **Answers**, not just rules

The Go APE Temperament Sequence

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Use this *Octave Flow Chart to measure A3-A4 and F3-F4.

We use that information to tune F#3 and A#3



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1

Tuning A3 and A4

NOTE	Tune from	METHOD
A4	ETD	Use DSU and an ETD
A3	A4	Use the Octave Flow Chart* to determine small, medium, or large inharmonicity.

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2

The Skeleton, F3-A3-C#4-F4-A4

(Contiguous M3's)

The Set-Up for Tuning C#4

NOTE	Tune from	METHOD
F3	A3	Make approx. 7 bps
F4	F3	Use the Octave Flow Chart* to determine small, medium, or large inharmonicity.

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3

The Skeleton, F3-A3-C#4-F4-A4

(Contiguous M3's)

Now tune C#4 in the *lower skeleton*

NOTE	Tune from	METHOD
C#4	F3-A3/A3-C#4/C#4-F4	Only one progression is possible: slow-medium-fast medium-medium-medium fast-medium-slow *Find it*

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4

The Skeleton, F3-A3-C#4-F4-A4

(Contiguous M3's)

Now tune F4 in the *upper skeleton*

NOTE	Tune from	METHOD
F4	A3-C#4/C#4-F4/F4-A4	Only one progression is possible: slow-medium-fast *Tune F4 so it happens*
F3	F4 *(Not needed if F4 was already correct)*	Using the scale already found in slide 2

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5

The Skeleton, F3-A3-C#4-F4-A4

(Contiguous M3's)

Tuning D4 in its Beat Speed Window

NOTE	Tune from	METHOD
D4	F3-A3 (slow) A3-C#4 (fast)	F3-A3 < F3-**D4** < A3-C#4

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S1

Tuning F#3/A#3 Using the Small Scale

NOTE	Tune from	METHOD
F#3	A3-C#4 (slow) C#4-F4 (fast)	A3-C#4 < **F#3**-A3 < C#4-F4
A#3	C#4-F4 (slow) F4-A4 (fast)	C#4-F4 < **A#3**-C#4 < F4-A4

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S2

Tuning F#3/A#3 Using the Small Scale

Check Your Work

Window	TESTS
F3-A3 (slow) F3-D4 (fast)	F3-A3 < **F#3-A#3** < F3-D4
A3-C#4 (slow) F#3-A3 (fast)	A3-C#4 < **A#3**-D4 < F#3-A4
F#3-A#3 (slow) A#3-D4 (fast)	This is the window for the next note to be tuned.

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M1 Tuning F#3/A#3 Using the Medium Scale

NOTE	Tune from	METHOD
G#3	A3-C#4 (slow) C#4-F4 (fast)	A3-C#4 < F3-**G#3** < C#4-F4
C4	C#4-F4 (slow) F4-A4 (fast)	C#4-F4 < A3-**C4** < F4-A4
A#3	A3-C#4 (slow) F3-G#3 (fast)	A3-C#4 < **A#3**-D4 < F3-G#3
F#3	F3-G#3 (slow) C#4-F4 (fast)	F3-G#3 < **F#3**-A3 < C#4-F4

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M2

Tuning F#3/A#3 Using the Medium Scale

Check Your Work

Window	TESTS
F3-A3 (slow) F3-D4 (fast)	F3-A3 < **F#3-A#3** < F3-D4
F#3-A#3 (slow) A#3-D4 (fast)	This is the window for the next note to be tuned.

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M3

Tuning F#3/A#3 Using the Medium Scale

Check Your Work

Chromatic M3 and Surrogate Progression

F3-A3 < **F#3-A#3** < F3-D4 < **G#3-C4** < **A3-C#4** < **A#3-D4** < F3-G#3 < F#3-A3 < **C#4-F4** < C4-A4 < A3-C4 < A#3-C#4 < **F4-A4**

*(**BOLD** = M3's. Regular = surrogates)*

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L1

Tuning F#3/A#3 Using the Large Scale

There are no windows for these settings

NOTE	METHOD
F#3	**F#3**-A3 = C#4-F4
A#3	**A#3**-C#4 = F4-A4

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L2

Tuning F#3/A#3 Using the Large Scale

Check Your Work

Window	TESTS
F3-A3 (slow) F3-D4 (fast)	F3-A3 < **F#3-A#3** < F3-D4
A3-C#4 (slow) F#3-A3 (fast)	A3-C#4 < **A#3**-D4 < F#3-A4
F#3-A#3 (slow) A#3-D4 (fast)	This is the window for the next note to be tuned.

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6

Common Finish

G3-B3-D#4

NOTE	Tune from	METHOD
D#4	F#3-A#3 (slow) A#3-D4 (fast)	F#3-A#3 < F#3-**D#4** < A#3-D4
B3	A3-C#4 (slow) C#4-F4 (fast)	A3-C#4 < **B3**-D#4 < C#4-F4
G3	F3-A3 (slow) A3-C#4 (fast)	F3-A3 < **G3**-B3 < A3-C#4

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7

Common Finish

G#3-C4-E4

NOTE	Tune from	METHOD
E4	G3-B3 (slow) B3-D#4 (fast)	G3-B3 < G3-**E4** < B3-D#4
C4	B3-D#4 (slow) C#4-F4 (fast)	B3-D#4 < **C4**-E4 < C#4-F4
G#3	G3-B3 (slow) A3-C#4 (fast)	G3-B3 < **G#3**-C4 < A3-C#4

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Now, check all P4 and P5, looking for intervals with problems, and then:

“Check each interval note, one way,
the way it was originally tuned,
looking for permission for change it
in the direction that will fix your problem.”

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