Scale Length Generator

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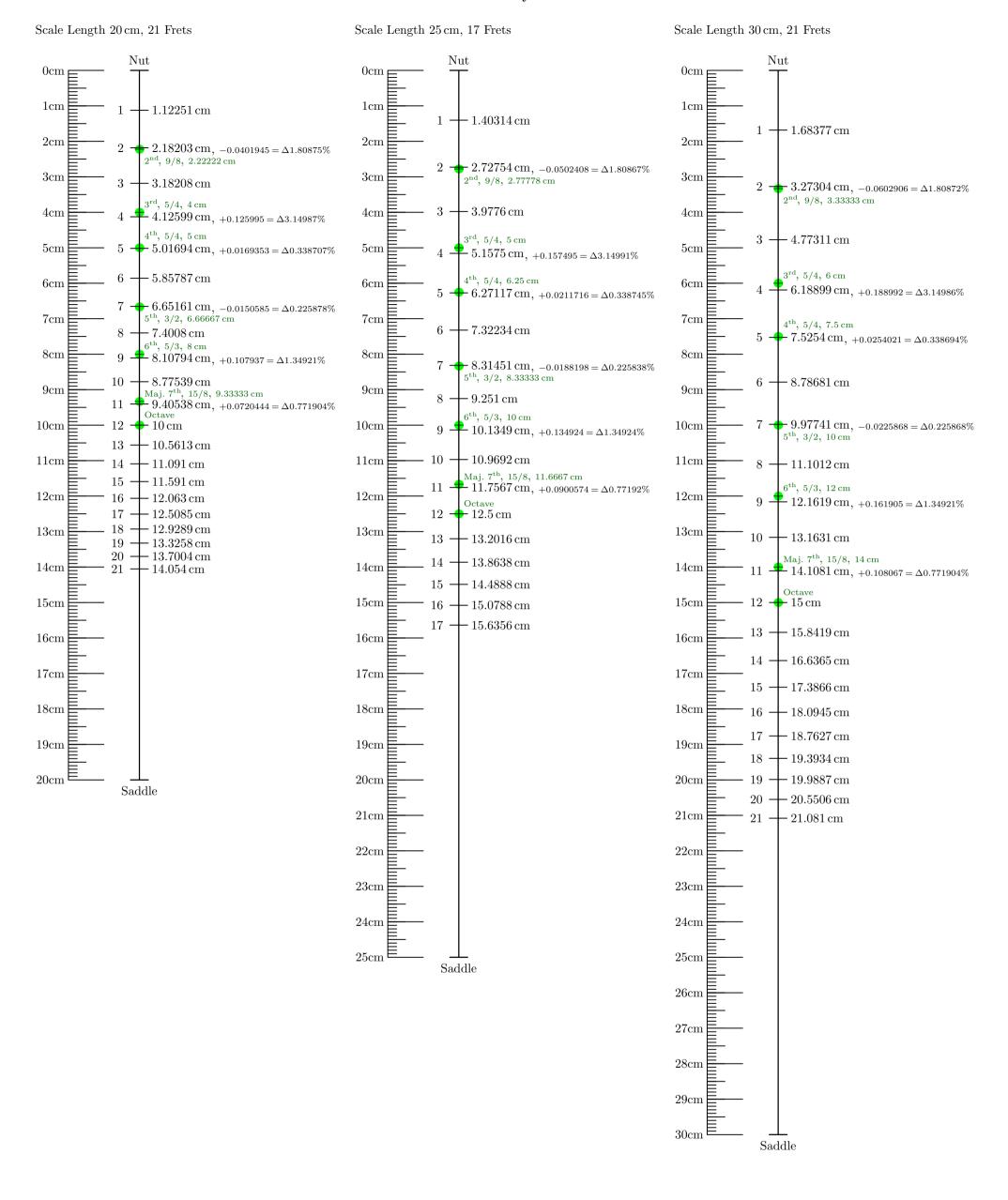
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SEE FOLLOWING PAGE.

Scale Layout Generator



Quarter-Tone Scale Layouts

Scale Length 35 cm, 50 Frets Scale Length 38 cm, 47 Frets Scale Length 30 cm, 38 Frets Nut Nut Nut 0cm **F** 0cm **=** $0 \mathrm{cm}$ $-0.854042\,\mathrm{cm}$ $-0.996384\,\mathrm{cm}$ 1 cm $1 \mathrm{cm}$ $1 \mathrm{cm}$ $+1.08179 \,\mathrm{cm}$ $-1.68377 \,\mathrm{cm}, -1.64956 = \Delta 49.4869\%$ $-1.9644 \,\mathrm{cm}, -1.92449 = \Delta 49.4868\%$ 2 -2cm $2 \mathrm{cm}$ $-2.13278 \, \text{cm}, -2.08944 = \Delta 49.4868\%$ $3 + 2.48988 \,\mathrm{cm}$ 3 - $-2.90486\,\mathrm{cm}$ 3cm3cm3cm $+3.15385 \,\mathrm{cm}$ $-3.27304 \,\mathrm{cm}, +-2.72696 = \Delta 45.4494\%$ $2^{\rm nd}$, 9/8, 3.33333 cm -3.81855 cm, $+-3.18145 = \Delta 45.4493\%$ $-4.0339 \,\mathrm{cm}$, $+-3.4661 = \Delta 46.2146\%$ 4cm $4 \mathrm{cm}$ 4cm+4.14585 cm, $+3.45414 = \Delta 45.4493\%$ $2^{\rm nd},\;9/8,\;3.88889\,{\rm cm}$ $2^{\rm nd}$, 9/8, 4.22222 cm $-4.70622 \,\mathrm{cm}, +-4.04378 = \Delta 46.2146\%$ $-4.77311 \, \mathrm{cm}$ 5cm5cm5cm $-5.10962 \,\mathrm{cm}, +-4.39038 = \Delta 46.2146\%$ $\begin{array}{l} -5.49127\,cm,\ -4.50873 = \Delta 45.0873\% \\ 3^{\rm rd},\ 5/4,\ 6\,cm \end{array}$ $+5.56863\,\mathrm{cm}$ 6cm $+6.04594 \,\mathrm{cm}$ $6 \mathrm{cm}$ 6cm $-6.18898\,\mathrm{cm}$ $-6.40648 \, cm, -5.26018 = \Delta 45.0873\%$ $3^{\rm rd}$, 5/4, $7 \, \rm cm$ $-6.86684 \, \text{cm}, +-5.13316 = \Delta 42.7763\%$ $4^{\text{th}}, 5/4, 7.5 \, \text{cm}$ $-6.95561 \, \text{cm}, -5.71106 = \Delta 45.0873\%$ $7 \mathrm{cm}$ $7 \mathrm{cm}$ $7 \mathrm{cm}$ $-7.22049\,\mathrm{cm}$ $3^{\rm rd}$, 5/4, $7.6 \, \rm cm$ + 7.52539 cm $-7.83938\,\mathrm{cm}$ $-8.01132 \,\mathrm{cm}, +-5.98868 = \Delta 42.7763\%$ 8cm $8 \mathrm{cm}$ 8cm $+8.1652 \,\mathrm{cm}, +-5.8348 = \Delta 41.6771\%$ $4^{\rm th}$, 5/4, $8.75 \, \rm cm$ $-8.698\,\mathrm{cm},\ +-6.502 = \Delta 42.7763\%$ $+8.7868 \, \mathrm{cm}$ $-8.77963\,\mathrm{cm}$ 9cm9cm9cm 4^{th} , 5/4, 9.5 cm13 $+9.3907 \, \text{cm}$ $-9.52608 \, \text{cm}, +-6.80726 = \Delta 41.6771\%$ $10 + 9.53217 \,\mathrm{cm}$ $14 + 9.97741 \, \text{cm}$ $10 \mathrm{cm}$ $10 \mathrm{cm}$ $10 \mathrm{cm}$ 12 $-10.2513\,\mathrm{cm}$ 11 + 10.3426 cm, $+-7.39074 = \Delta 41.6771\%$ $15 + \frac{5^{\circ 1}}{10.5474} \times \frac{3}{2} \times \frac{10 \text{ cm}}{10.5474}$ $-10.9558\,\mathrm{cm}$ 13 11cm11cm11cm $16 + 11.1012 \,\mathrm{cm}$ $12 + 11.1299 \,\mathrm{cm}$ $17 + \frac{1}{6} \cdot 11_{5} = 6392 \text{cm}$ $-11.6403\,\mathrm{cm}$ $13 + 11.8949 \,\mathrm{cm}$ 5^{th} , 3/2, 11.6667 cm12cm12cm12cm $18 + 12.1619 \,\mathrm{cm}$ $-12.3053\,\mathrm{cm}$ $19 + 12.6697 \,\mathrm{cm}$ + 12.638 cm $5^{\rm th}, 3/2, 12.6667 \, {\rm cm}$ 16 $-12.9514\,\mathrm{cm}$ 13cm13cm $13 \mathrm{cm}$ $20 + 13.1631 \,\mathrm{cm}$ $-13.3601\,\mathrm{cm}$ 17 $\frac{13.5791 \text{ cm}}{5.73}$ $21 + \frac{1}{M_{a}} \cdot \frac{3.6424 \text{ cm}}{8.14 \text{ cm}}$ $14 \mathrm{cm}$ $14 \mathrm{cm}$ $14 \mathrm{cm}$ $16 + 14.0615 \,\mathrm{cm}$ 22 + 14.1081 cm + 14.1889 cm $23 + \frac{14.5605}{0000}$ cm $-14.7813\,\mathrm{cm}$ $-14.743 \, \mathrm{cm}_{6^{\mathrm{th}}, 5/3, 15.2 \, \mathrm{cm}}$ 19 -24+ 15 cm $15 \mathrm{cm}$ 15cm $15 \mathrm{cm}$ $+15.427\,\mathrm{cm}$ $-15.3569 \,\mathrm{cm}$ $-15.4051\,\mathrm{cm}$ 18 25 $-15.8419\,\mathrm{cm}$ 2621 $-15.9161 \, \mathrm{cm}_{\mathrm{Maj.}}$ 16cm16cm16cm19 $-16.0483\,\mathrm{cm}$ $-16.2449\,\mathrm{cm}$ 27 $-16.4594\,\mathrm{cm}$ $-16.6365\,\mathrm{cm}$ 20 $-16.6732\,\mathrm{cm}$ $-16.9872\,\mathrm{cm}$ $-17.017\,\mathrm{cm}$ 23 29 17cm17cm17cm $-17.2804\,\mathrm{cm} \ \mathrm{Maj.}\ 7^{\mathrm{th}},\ 15/8,\ 17.7333\,\mathrm{cm}$ $-17.3866\,\mathrm{cm}$ 30 24 $-17.5\,\mathrm{cm}$ $-17.7456\,\mathrm{cm}$ 22 $-17.8702\,\mathrm{cm}$ $-17.9982\,\mathrm{cm}$ 18cm18cm2518cm $-18.0945\,\mathrm{cm}$ $+18.4334 \,\mathrm{cm} \\ 18.7627 \,\mathrm{cm}$ 33 $-18.4433\,\mathrm{cm}$ 26 23 $-18.4822\,\mathrm{cm}$ 19.0826 cm 19.0826 cm 19.3934 cm 19.6954 cm 27 $-18.9524\,\mathrm{cm}$ 24 $19 \mathrm{cm}$ $19 \mathrm{cm}$ 19cm+ 19 cm 28 $-19.4093 \, \mathrm{cm}$ 25 $-19.5409\,\mathrm{cm}$ 29 $-19.8531\,\mathrm{cm}$ $-19.9887 \, \mathrm{cm}$ $20 \mathrm{cm}$ $20 \mathrm{cm}$ $20 \mathrm{cm}$ 26 $-20.0664\,\mathrm{cm}$ 30 $-20.2843\,\mathrm{cm}$ 27 $-20.5769\,\mathrm{cm}$ 31 $-20.7032\,\mathrm{cm}$ 21cm $21 \mathrm{cm}$ $21 \mathrm{cm}$ 28 $-21.0729\,\mathrm{cm}$ 32 $-21.1102\,\mathrm{cm}$ 33 $-21.5057\,\mathrm{cm}$ 29 - $-21.5548\,\mathrm{cm}$ $-21.8898\,\mathrm{cm}$ 3422cm30 $22\mathrm{cm}$ 22cm $22.023\,\mathrm{cm}$ 35 $-22.263\,\mathrm{cm}$ $-22.4778\,\mathrm{cm}$ 31 $-22.6256\,\mathrm{cm}$ 36 32 - $-22.9197\,\mathrm{cm}$ $-22.9779 \, \mathrm{cm}$ $23 \mathrm{cm}$ $23 \mathrm{cm}$ $23 \mathrm{cm}$ $-23.349\,\mathrm{cm}$ 38 $-23.3202\,\mathrm{cm}$ 33 -39 $34 \cdot$ $-23.7661\,\mathrm{cm}$ $-23.9757\,\mathrm{cm}$ $24\mathrm{cm}$ $24 \mathrm{cm}$ $24 \mathrm{cm}$ $-24.1713\,\mathrm{cm}$ 3536 $24.565\,\mathrm{cm}$ $24.9474\,\mathrm{cm}$ 37 $25\mathrm{cm}$ $25 \mathrm{cm}$ $25 \mathrm{cm}$ $-25.319\,\mathrm{cm}$ 3839 - $-25.68\,\mathrm{cm}$.7297 cm .9<u>9</u>36 cm $26 \mathrm{cm}$ $26 \mathrm{cm}$ $26 \mathrm{cm}$ 47 48 49 50 $-26.0308\,{
m cm}$ $-26.3715\,{
m cm}$ $-26.7025\,\mathrm{cm}$ $27 \mathrm{cm}$ $27 \mathrm{cm}$ $27 \mathrm{cm}$ $28 \mathrm{cm}$ $28 \mathrm{cm}$ $28 \mathrm{cm}$ $29 \mathrm{cm}$ $29 \mathrm{cm}$ $30 \mathrm{cm}$ $30 \mathrm{cm}$ 30 cmSaddle $31 \mathrm{cm}$ 31 cm $32 \mathrm{cm}$ 32 cm $33 \mathrm{cm}$ 33 cm $34 \mathrm{cm}$ 34 cm35 cmSaddle $36 \mathrm{cm}$ $37 \mathrm{cm}$

 $38 \mathrm{cm}$

 ${\bf Saddle}$