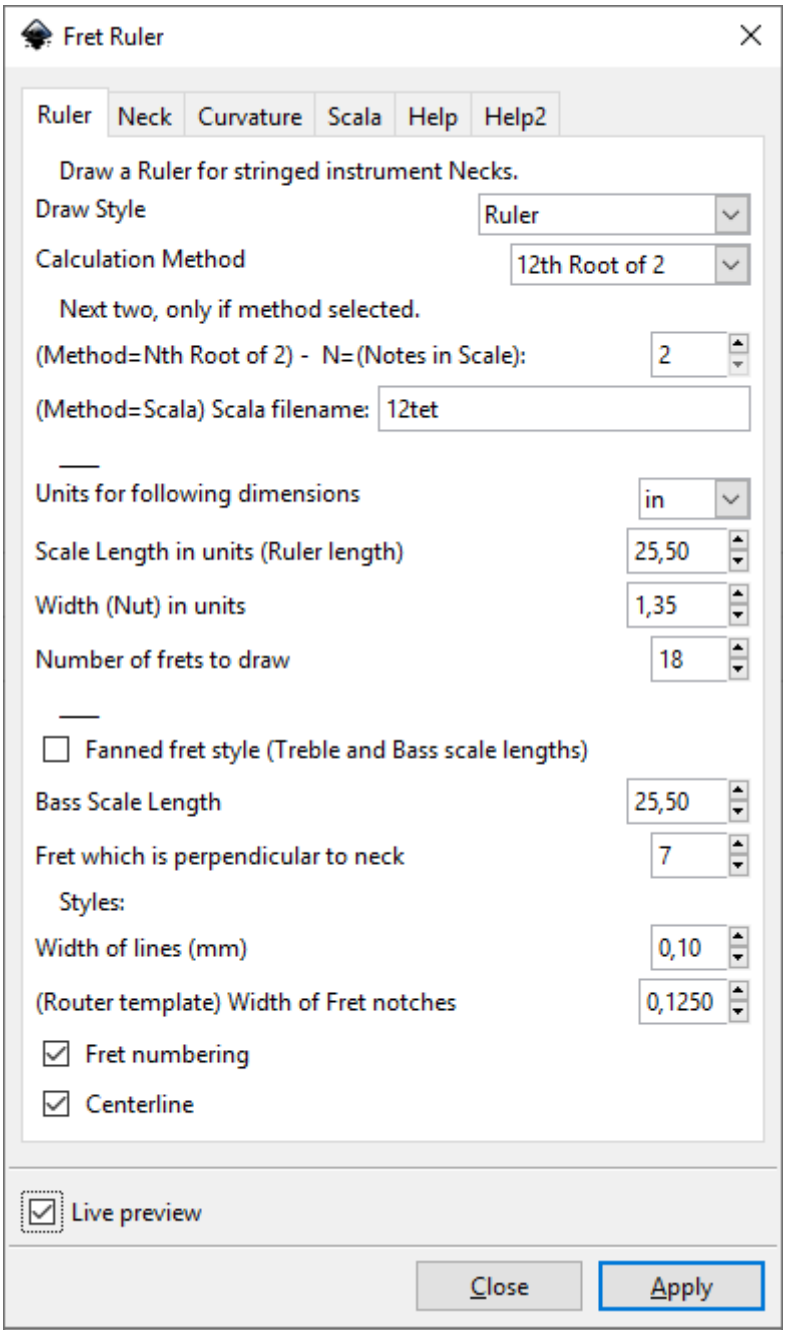
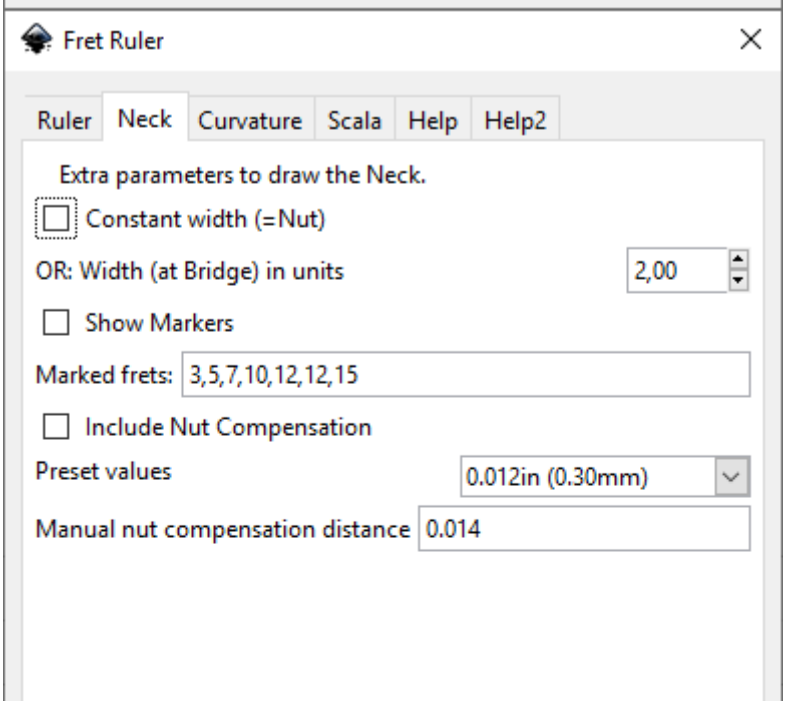
Music

- Fret Ruler
- Guitar Fretboard
- Piano Scale

Fret Ruler


Fret Ruler
Ruler
Neck
Curvature
Scala
Help
Help2
Draw a Ruler for stringed instrument Necks.
Draw Style
Ruler
Calculation Method
12th Root of 2
Next two, only if method selected.
(Method=Nth Root of 2) - N=(Notes in Scale):
2
(Method=Scala) Scala filename:
12tet
Units for following dimensions
in
Scale Length in units (Ruler length)
25,50
Width (Nut) in units
1,35
Number of frets to draw
18
Fanned fret style (Treble and Bass scale lengths)
Bass Scale Length
25,50
Fret which is perpendicular to neck
7
Styles:
Width of lines (mm)
0,10
(Router template) Width of Fret notches
0,1250
Fret numbering
Centerline
Live preview
Close
Apply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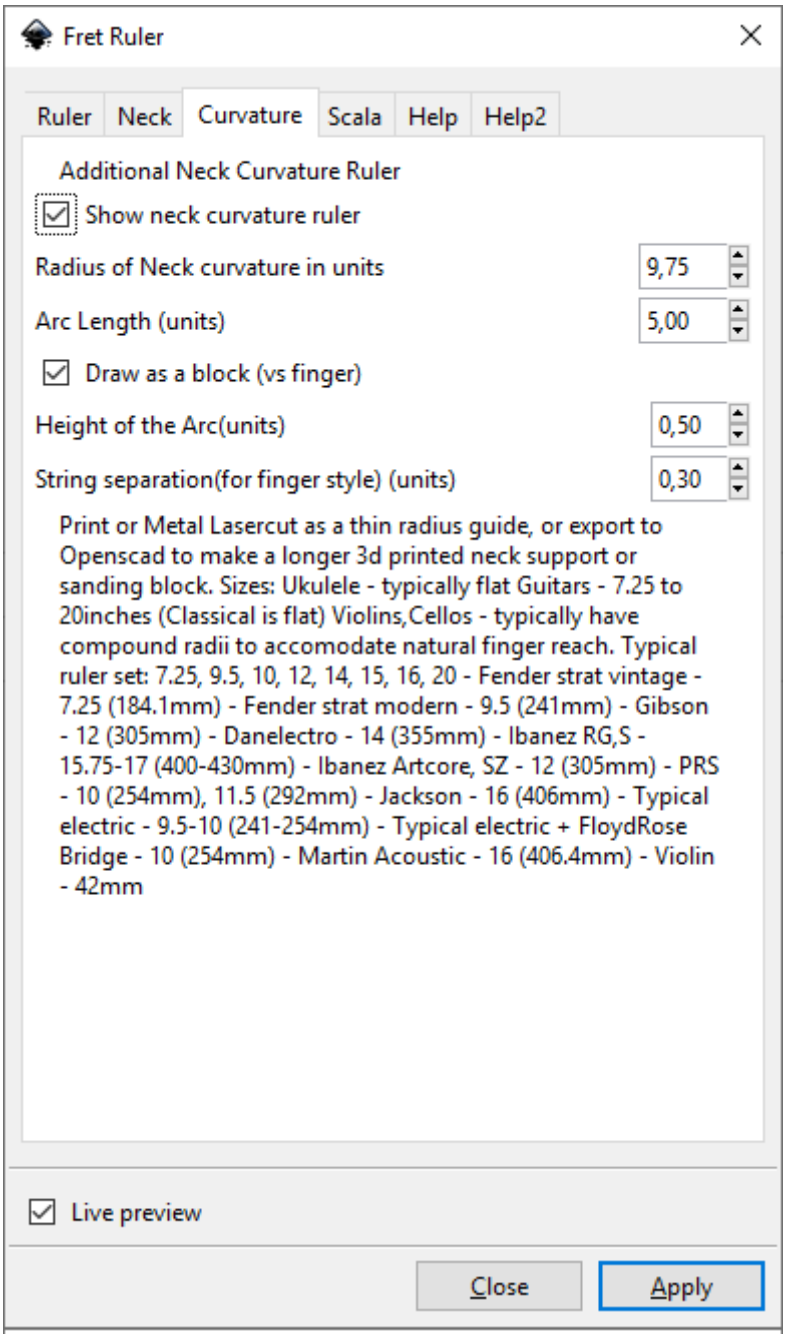
Extra parameters to draw the Neck.
Constant width (=Nut)
OR: Width (at Bridge) in units
2,00
Show Markers
Marked frets:
3,5,7,10,12,12,15
Include Nut Compensation
Preset values
0.012in (0.30mm)
Manual nut compensation distance
0.014


Fret Ruler
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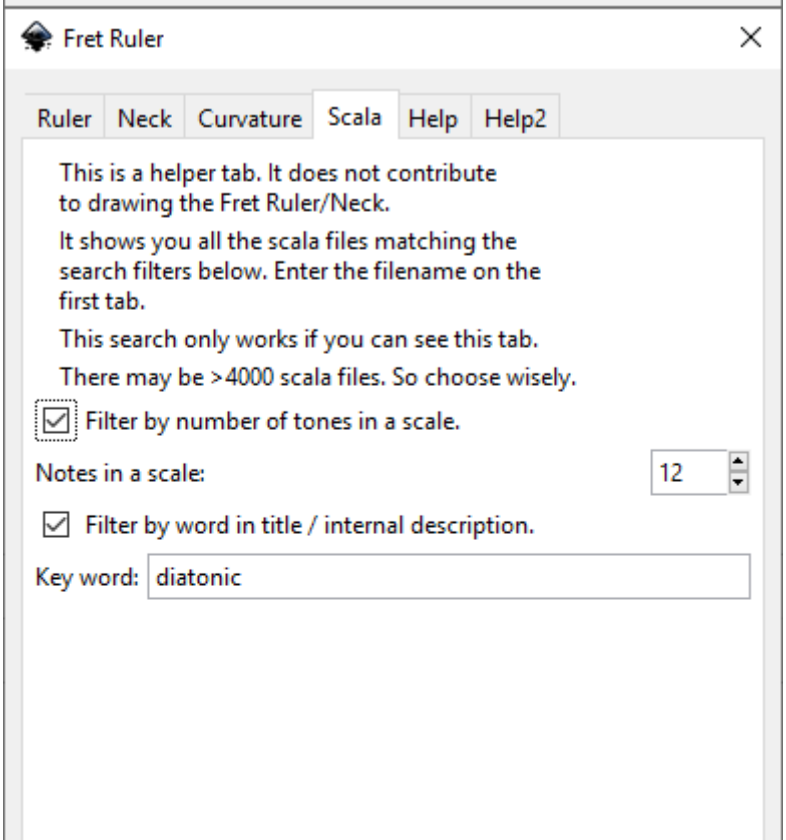
Additional Neck Curvature Ruler
Show neck curvature ruler
Radius of Neck curvature in units
9,75
Arc Length (units)
5,00
Draw as a block (vs finger)
Height of the Arc(units)
0,50
String separation(for finger style) (units)
0,30
Print or Metal Lasercut as a thin radius guide, or export to Openscad to make a longer 3d printed neck support or sanding block. Sizes: Ukulele - typically flat Guitars - 7.25 to 20inches (Classical is flat) Violins,Cellos - typically have compound radii to accomodate natural finger reach. Typical ruler set: 7.25, 9.5, 10, 12, 14, 15, 16, 20 - Fender strat vintage - 7.25 (184.1mm) - Fender strat modern - 9.5 (241mm) - Gibson - 12 (305mm) - Danelectro - 14 (355mm) - Ibanez RG,S - 15.75-17 (400-430mm) - Ibanez Artcore, SZ - 12 (305mm) - PRS - 10 (254mm), 11.5 (292mm) - Jackson - 16 (406mm) - Typical electric - 9.5-10 (241-254mm) - Typical electric + FloydRose Bridge - 10 (254mm) - Martin Acoustic - 16 (406.4mm) - Violin - 42mm
Live preview
Close
Apply


Fret Ruler
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This is a helper tab. It does not contribute to drawing the Fret Ruler/Neck.
It shows you all the scala files matching the search filters below. Enter the filename on the first tab.
This search only works if you can see this tab.
There may be >4000 scala files. So choose wisely.
Filter by number of tones in a scale.
Notes in a scale:
12
Filter by word in title / internal description.
Key word:
diatonic


Fret Ruler
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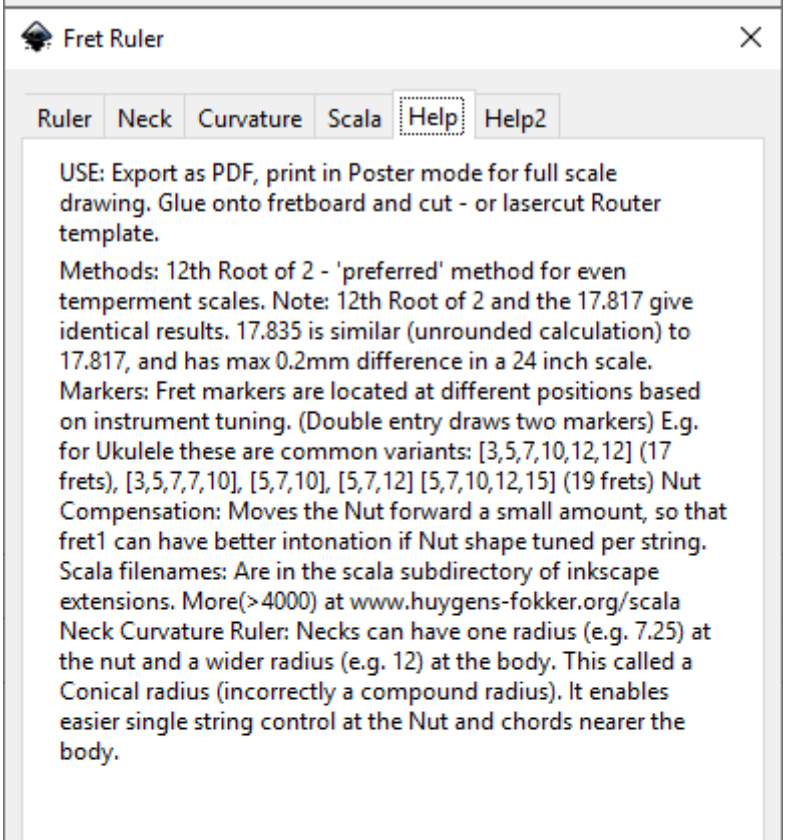
Help2
Fretboard lengths: Guitar scale lengths are usually between 24" and 26". Bass scale lengths generally stay between 30" to 36". Common scale lengths: Banjo - 26_3/16 (665.2mm) Mandolin - 13_7/8 (335mm) Ukulele concert - 15 (381mm) Ukulele soprano - 13_3/4 (349.25mm) Ukulele tenor - 17_3/32 (434.2mm) Ukulele Baritone - 20_1/8 (511.2mm) Fender Jaguar - 24 (609.60mm) Fender Stratocaster/Telecaster - 25.5 (647.70mm) Fender Jazz Bass - 34 (863.60mm) Rickenbacker - 24.75 (628.65mm) Rickenbacker bass - 33.25 (844.55mm) Gibson Les Paul - 24.75 (628.65mm) Gibson - 24.625, 24.563, 25.3 (625.48, 623.9, 642.62mm) Paul Reed Smith - 25 (635mm) Hofner Beatle Bass - 30 (762mm) Martin - 24.9, 25.34 (632.5, 643.64mm) PRS - 25 (635mm) Baritone - 27.67 (702.82mm) Short scale bass - 30 (762mm) Classical guitar 25.6, 26 (650, 660mm) Baritone guitar 28.5, 30.2 (724, 767mm)
Live preview
Close
Apply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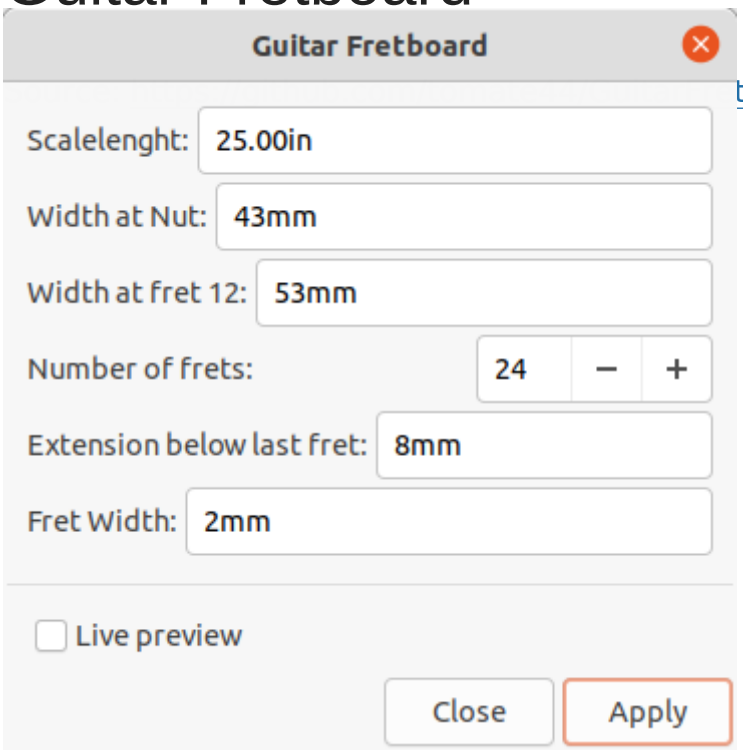
USE: Export as PDF, print in Poster mode for full scale drawing. Glue onto fretboard and cut - or lasercut Router template.
Methods: 12th Root of 2 - 'preferred' method for even temperment scales. Note: 12th Root of 2 and the 17.817 give identical results. 17.835 is similar (unrounded calculation) to 17.817, and has max 0.2mm difference in a 24 inch scale. Markers: Fret markers are located at different positions based on instrument tuning. (Double entry draws two markers) E.g. for Ukulele these are common variants: [3,5,7,10,12,12] (17 frets), [3,5,7,7,10], [5,7,10], [5,7,12] [5,7,10,12,15] (19 frets) Nut Compensation: Moves the Nut forward a small amount, so that fret1 can have better intonation if Nut shape tuned per string. Scala filenames: Are in the scala subdirectory of inkscape extensions. More(>4000) at www.huygens-fokker.org/scala Neck Curvature Ruler: Necks can have one radius (e.g. 7.25) at the nut and a wider radius (e.g. 12) at the body. This called a Conical radius (incorrectly a compound radius). It enables easier single string control at the Nut and chords nearer the body.

Example Output

Guitar Fretboard



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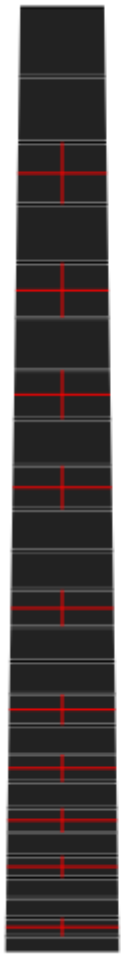
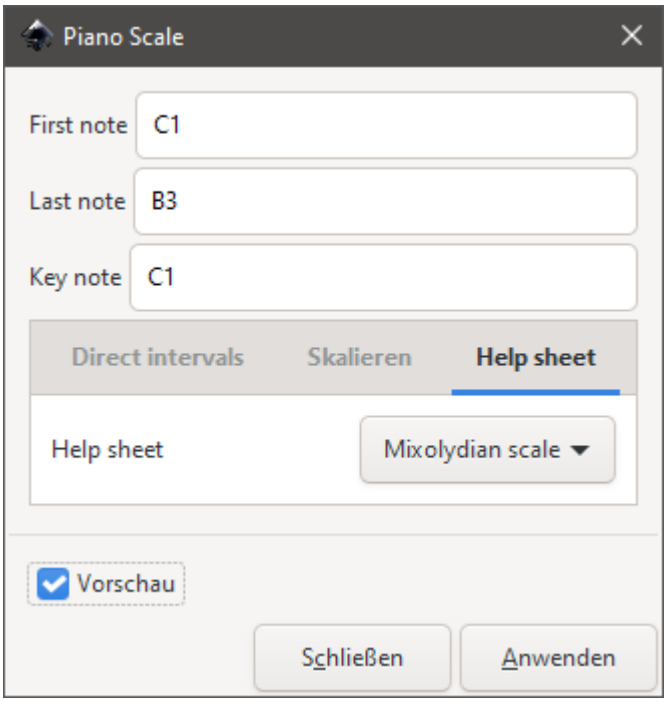


Scalelenght : 25.00in
Nut width : 43mm
12th fret width : 53mm
Number of frets : 24
Extension below last fret : 8mm
Fret width : 2mm

Piano Scale

Source: https://inkscape.org/~Neon22/%E2%98%85pianoscale



Phrygian scale