

Just Matrix Layout Panel

The Layout Panel for an Extended Just Matrix contains two *Ratio/Order* textfields, one for each dimension of the matrix. *Ratio* refers to the whole number ratio used as a generative interval for each dimension. *Order* refers to the number of cells to generate for that dimension. The axes display both positive and negative exponents of the ratios that generate them. For example, specifying a ratio of $3/2$ and an order of 2 will generate an axis of: $1/1$ $3/2$ $9/8$ (all ratios are brought to within an octave: $2/1$, so $9/4$ becomes $9/8$) in the positive direction and $1/1$ $4/3$ $16/9$ in the negative direction, giving a total axis of : $16/9$ $4/3$ $1/1$ $3/2$ $9/8$. Specifying a ratio of $5/4$ and an order of 2 will generate an axis of: $1/1$ $5/4$ $25/16$

in the positive direction and $1/1$ $4/5$ $32/25$ in the negative direction, giving a total axis of : $32/25$ $4/5$ $1/1$ $5/4$ $25/16$.

Keys of the matrix not on an axis are multiplicative combinations of ratios at their axial coordinates. For example the row above the X axis for the above example would be: $3/2$ $15/8$ $75/64$ in the positive direction and $3/2$ $6/5$ $48/25$ in the negative direction. The total row would read $48/25$ $6/5$ $3/2$ $15/8$ $75/64$.

Use the **Matrix Layout Panel** obtained from the **New Matrix...** item of the **Tuning submenu** to create a **Extended Just Matrix**.

