

Even-run rhythm-maker

EvenRunRhythmMaker()

ER 1-1

$\frac{4}{16}$ $\frac{5}{16}$ $\frac{1}{2}$ $\frac{2}{12}$

3:2

Two staves of musical notation. The first staff contains three measures: the first with a $\frac{4}{16}$ time signature and four eighth notes, the second with a $\frac{5}{16}$ time signature and five eighth notes, and the third with a $\frac{1}{2}$ time signature and a single half note. The second staff begins with a whole rest, followed by a measure with a $\frac{2}{12}$ time signature and a dotted quarter note, then a measure with a $\frac{4}{16}$ time signature and four eighth notes, and finally a measure with a $\frac{5}{16}$ time signature and five eighth notes. A 3:2 ratio is indicated above the final measure.

ER 1-2

$\frac{1}{11}$ $\frac{3}{8}$ $\frac{1}{11}$ $\frac{3}{8}$

11:8

Two staves of musical notation. The first staff starts with a measure containing a $\frac{1}{11}$ time signature and a dotted eighth note, followed by a measure with a $\frac{3}{8}$ time signature and three eighth notes. The second staff continues with a measure with a $\frac{1}{11}$ time signature and a dotted eighth note, followed by a measure with a $\frac{3}{8}$ time signature and three eighth notes. A 11:8 ratio is indicated above the first measure of each staff.

ER 1-3

$\frac{3}{15}$ $\frac{3}{16}$ $\frac{5}{24}$ $\frac{5}{16}$ $\frac{2}{12}$ $\frac{2}{8}$ $\frac{3}{28}$ $\frac{3}{16}$ $\frac{1}{9}$ $\frac{1}{8}$

15:8 3:2 3:2 3:2 7:4 7:4 9:8 9:8

Two staves of musical notation. The first staff contains five measures with time signatures $\frac{3}{15}$, $\frac{3}{16}$, $\frac{5}{24}$, $\frac{5}{16}$, and $\frac{5}{16}$. The second staff contains five measures with time signatures $\frac{2}{12}$, $\frac{2}{8}$, $\frac{3}{28}$, $\frac{3}{16}$, and $\frac{1}{9}$, followed by a final measure with a $\frac{1}{8}$ time signature. Ratios 15:8, 3:2, 3:2, 3:2, 7:4, 7:4, 9:8, and 9:8 are indicated above the measures.

ER 1-4

$\frac{9}{16}$ $\frac{1}{5}$ $\frac{9}{16}$ $\frac{1}{5}$ $\frac{9}{16}$

5:4 5:4

Two staves of musical notation. The first staff contains three measures with time signatures $\frac{9}{16}$, $\frac{1}{5}$, and $\frac{9}{16}$. The second staff contains three measures with time signatures $\frac{1}{5}$, $\frac{9}{16}$, and $\frac{9}{16}$. Ratios 5:4 and 5:4 are indicated above the first and third measures of the first staff.

```
EvenRunRhythmMaker(  
    beam_specifier=BeamSpecifier(  
        beam_each_division=True,  
        beam_divisions_together=True,  
    ),  
)
```

ER
2-1

$\frac{4}{16}$

$\frac{5}{16}$

$\frac{1}{2}$

$\frac{2}{12}$

ER
2-2

$\frac{1}{11}$

$\frac{3}{8}$

ER
2-3

$\frac{3}{15}$

$\frac{3}{16}$

$\frac{5}{24}$

$\frac{5}{16}$

ER
2-4

$\frac{9}{16}$

$\frac{1}{5}$

$\frac{9}{16}$

```
EvenRunRhythmMaker(  
    beam_specifier=BeamSpecifier(  
        beam_each_division=False,  
        beam_divisions_together=False,  
    ),  
)
```

ER
3-1

$\frac{4}{16}$

$\frac{5}{16}$

$\frac{1}{2}$

$\frac{2}{12}$

$\frac{1}{2}$

$\frac{2}{12}$

$\frac{4}{16}$

$\frac{5}{16}$

$\frac{1}{2}$

$\frac{2}{12}$

$\frac{4}{16}$

$\frac{5}{16}$

ER
3-2

$\frac{1}{11}$

$\frac{3}{8}$

$\frac{1}{11}$

$\frac{3}{8}$

$\frac{1}{11}$

$\frac{3}{8}$

$\frac{1}{11}$

$\frac{3}{8}$

ER
3-3

$\frac{3}{15}$

$\frac{3}{16}$

$\frac{5}{24}$

$\frac{5}{16}$

$\frac{2}{12}$

$\frac{2}{8}$

$\frac{3}{28}$

$\frac{3}{16}$

$\frac{1}{9}$

$\frac{1}{8}$

ER
3-4

$\frac{9}{16}$

$\frac{1}{5}$

$\frac{9}{16}$

$\frac{1}{5}$

$\frac{9}{16}$

$\frac{9}{16}$

$\frac{1}{5}$

$\frac{9}{16}$

$\frac{1}{5}$

$\frac{9}{16}$

```
EvenRunRhythmMaker(
    tie_specifier=TieSpecifier(
        tie_across_divisions=True,
        tie_split_notes=True,
    ),
)
```

ER 4-1

4/16 5/16 1/2 2/12

1/2 2/12 4/16 5/16

ER 4-2

1/11 3/8

1/11 3/8

ER 4-3

3/15 3/16 5/24 5/16

2/12 2/8 3/28 3/16 1/9 1/8

ER 4-4

9/16 1/5 9/16

1/5 9/16

```
EvenRunRhythmMaker(  
  exponent=1,  
)
```

ER 5-1

$\frac{4}{16}$ $\frac{5}{16}$ $\frac{1}{2}$ $\frac{2}{12}$ $\frac{3}{2}$

Musical notation for ER 5-1. The first staff contains four measures: the first measure has a 4/16 time signature and 8 eighth notes; the second measure has a 5/16 time signature and 10 eighth notes; the third measure has a 1/2 time signature and a whole note; the fourth measure has a 2/12 time signature and a triplet of eighth notes. The second staff contains three measures: the first measure has a 1/2 time signature and a whole note; the second measure has a 2/12 time signature and a triplet of eighth notes; the third measure has a 4/16 time signature and 8 eighth notes. The third staff contains two measures: the first measure has a 5/16 time signature and 10 eighth notes; the second measure has a 5/16 time signature and 10 eighth notes. The piece ends with a double bar line.

ER 5-2

$\frac{1}{11}$ $\frac{3}{8}$ $\frac{11}{8}$ $\frac{3}{8}$ $\frac{1}{11}$ $\frac{3}{8}$

Musical notation for ER 5-2. The first staff contains four measures: the first measure has a 1/11 time signature and a triplet of eighth notes; the second measure has a 3/8 time signature and 6 eighth notes; the third measure has a 11/8 time signature and 11 eighth notes; the fourth measure has a 3/8 time signature and 6 eighth notes. The second staff contains three measures: the first measure has a 1/11 time signature and a triplet of eighth notes; the second measure has a 3/8 time signature and 6 eighth notes; the third measure has a 11/8 time signature and 11 eighth notes. The piece ends with a double bar line.

ER 5-3

$\frac{3}{15}$ $\frac{3}{16}$ $\frac{5}{24}$ $\frac{5}{16}$ $\frac{2}{12}$ $\frac{2}{8}$ $\frac{3}{28}$ $\frac{3}{16}$ $\frac{1}{9}$ $\frac{1}{8}$

Musical notation for ER 5-3. The first staff contains five measures: the first measure has a 3/15 time signature and 15 eighth notes; the second measure has a 3/16 time signature and 15 eighth notes; the third measure has a 5/24 time signature and 24 eighth notes; the fourth measure has a 5/16 time signature and 20 eighth notes; the fifth measure has a 5/16 time signature and 20 eighth notes. The second staff contains six measures: the first measure has a 2/12 time signature and a triplet of eighth notes; the second measure has a 2/8 time signature and 4 eighth notes; the third measure has a 3/28 time signature and 28 eighth notes; the fourth measure has a 3/16 time signature and 12 eighth notes; the fifth measure has a 1/9 time signature and 9 eighth notes; the sixth measure has a 1/8 time signature and 8 eighth notes. The piece ends with a double bar line.

ER 5-4

$\frac{9}{16}$ $\frac{1}{5}$ $\frac{9}{16}$ $\frac{1}{5}$ $\frac{9}{16}$

Musical notation for ER 5-4. The first staff contains three measures: the first measure has a 9/16 time signature and 18 eighth notes; the second measure has a 1/5 time signature and a whole note; the third measure has a 9/16 time signature and 18 eighth notes. The second staff contains two measures: the first measure has a 1/5 time signature and a whole note; the second measure has a 9/16 time signature and 18 eighth notes. The piece ends with a double bar line.