

# Simple Automata

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Rule 254

The musical score consists of 11 staves, numbered 1 through 11. Staves 1 through 4 are empty. Staves 5 through 8 contain vocal lines with lyrics and performance instructions. Staves 9 through 11 are empty. The Automaton Master staff at the bottom shows a sequence of rhythmic marks.

Staff 5: *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr (Simile) \_\_\_\_\_

Staff 6: *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr (Simile) \_\_\_\_\_

Staff 7: *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr (Simile) \_\_\_\_\_

Staff 8: *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr

Automaton Master: [Rhythmic marks]

"moda khiare vapa khankha"

(Instructions delivered before final clap)

# Simple Automata

11

1

2

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11

AM

*Strong and percussive, sung using vocal harmonics throughout*

*Strong and percussive, sung using vocal harmonics throughout*

*Strong and percussive, sung using vocal harmonics throughout*

*Strong and percussive, sung using vocal harmonics throughout*

*Strong and percussive, sung using vocal harmonics throughout*

*Strong and percussive, sung using vocal harmonics throughout*

*Strong and percussive, sung using vocal harmonics throughout*

Oh - o - o - rr Oh - o - o - rr (Simile)

Oh - o - o - rr Oh - o - o - rr (Simile)

Oh - o - o - rr Oh - o - o - rr (Simile)

# Simple Automata

19

1 *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr Oh - o - o - rr Oh - o - o - rr—

2 (Simile)

3

4 *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr (Simile)

5

6

7

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10

11 *Strong and percussive, sung using vocal harmonics throughout*  
Oh - o - o - rr Oh - o - o - rr (Simile)

AM

"moda akoda vapa neti"

# Simple Automata

27

Rule 127

1  
2  
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9  
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11  
AM

"jijimoda!"

(first time only)

"moda tsa vapa voda"

# Simple Automata

35 Rule 130

The image shows a musical score for Rule 130, consisting of 11 numbered staves (1-11) and an AM staff at the bottom. The score is written in treble clef with a key signature of two sharps (F# and C#). The music is a sequence of notes and rests, representing the binary output of Rule 130. The notes are primarily quarter notes, with some eighth notes in the AM staff. The rests are represented by horizontal lines on the staves.

"moda tsa vapa doda"

# Simple Automata

43 Rule 129

The image displays a musical score for Rule 129, consisting of 11 numbered staves and an AM staff at the bottom. The score is written in treble clef with a key signature of two sharps (F# and C#). The music is organized into measures, with some measures containing rests and others containing rhythmic patterns. The patterns in the numbered staves are as follows:

- Staff 1: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 2: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 3: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 4: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 5: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 6: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 7: Eighth notes in measures 1-2, followed by rests in measures 3-4, and eighth notes in measures 5-8.
- Staff 8: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 9: Rests in measures 1-2, followed by eighth notes in measures 3-4, and rests in measures 5-8.
- Staff 10: Rests in measures 1-2, followed by eighth notes in measures 3-4, and eighth notes in measures 5-8.
- Staff 11: Rests in measures 1-2, followed by eighth notes in measures 3-4, and eighth notes in measures 5-8.

The AM staff at the bottom contains a single measure with a rest, followed by seven measures with rests.



# Simple Automata

Rule 110

59

The musical score consists of 11 numbered staves (1-11) and an AM staff at the bottom. All staves are in the key of D major (two sharps).  
- Staff 1: Treble clef, mostly rests with some eighth notes in measures 3-4.  
- Staff 2: Treble clef, mostly rests with some eighth notes in measures 3-4.  
- Staff 3: Treble clef, mostly rests.  
- Staff 4: Treble clef, eighth notes in measures 1-2, then rests.  
- Staff 5: Treble clef, continuous eighth notes throughout.  
- Staff 6: Treble clef, eighth notes in measures 1-2, then rests.  
- Staff 7: Treble clef, mostly rests.  
- Staff 8: Treble clef, mostly rests with eighth notes in measures 3-4.  
- Staff 9: Bass clef, eighth notes throughout.  
- Staff 10: Bass clef, eighth notes throughout.  
- Staff 11: Bass clef, eighth notes throughout.  
- AM staff: A single line with a square box at the start, followed by vertical tick marks corresponding to the notes in the staves above.

"moda akoda vapa anga"

# Simple Automata

67

The musical score consists of 11 numbered staves and an AM track. The key signature is three sharps (F#, C#, G#).  
- Staff 1: Treble clef, contains a sequence of quarter notes starting from the 5th measure.  
- Staff 2: Treble clef, contains a sequence of quarter notes starting from the 5th measure.  
- Staff 3: Treble clef, contains whole rests.  
- Staff 4: Treble clef, contains whole rests.  
- Staff 5: Treble clef, contains whole rests.  
- Staff 6: Treble clef, contains whole rests.  
- Staff 7: Treble clef, contains whole rests.  
- Staff 8: Treble clef, contains whole rests.  
- Staff 9: Bass clef, contains a sequence of quarter notes.  
- Staff 10: Bass clef, contains a sequence of quarter notes.  
- Staff 11: Bass clef, contains a sequence of quarter notes.  
- AM: A track with a square pulse at the beginning of each measure.

# Simple Automata

75

1

2

3

4

5

6

7

8

9

10

11

AM

# Simple Automata

83

The musical score consists of 11 numbered staves and an AM track. The key signature is three sharps (F#, C#, G#) and the time signature is 4/4. The notation is as follows:

- Staff 1:** Treble clef. Measures 1-4: quarter notes G4, A4, B4, C5. Measures 5-8: quarter notes D5, E5, F5, G5. Measures 9-12: quarter notes G5, F5, E5, D5. Measures 13-16: quarter notes C5, B4, A4, G4.
- Staff 2:** Treble clef. Measures 1-16: quarter notes G4, A4, B4, C5, D5, E5, F5, G5, A5, B5, C6, D6, E6, F6, G6, A6.
- Staff 3:** Treble clef. Measures 1-4: whole rest. Measures 5-8: quarter notes G4, A4, B4, C5. Measures 9-12: quarter notes D5, E5, F5, G5. Measures 13-16: quarter notes G5, F5, E5, D5.
- Staff 4:** Treble clef. Measures 1-4: whole rest. Measures 5-8: quarter notes G4, A4, B4, C5. Measures 9-12: quarter notes D5, E5, F5, G5. Measures 13-16: quarter notes G5, F5, E5, D5.
- Staff 5:** Treble clef. Measures 1-12: whole rest. Measures 13-16: quarter notes G4, A4, B4, C5.
- Staff 6:** Treble clef. Measures 1-16: quarter notes G4, A4, B4, C5, D5, E5, F5, G5, A5, B5, C6, D6, E6, F6, G6, A6.
- Staff 7:** Treble clef. Measures 1-4: quarter notes G4, A4, B4, C5. Measures 5-8: quarter notes D5, E5, F5, G5. Measures 9-12: quarter notes G5, F5, E5, D5. Measures 13-16: quarter notes C5, B4, A4, G4.
- Staff 8:** Treble clef. Measures 1-4: whole rest. Measures 5-8: quarter notes G4, A4, B4, C5. Measures 9-12: quarter notes D5, E5, F5, G5. Measures 13-16: quarter notes G5, F5, E5, D5.
- Staff 9:** Bass clef. Measures 1-4: quarter notes G3, A3, B3, C4. Measures 5-8: quarter notes D4, E4, F4, G4. Measures 9-12: quarter notes G4, F4, E4, D4. Measures 13-16: quarter notes C4, B3, A3, G3.
- Staff 10:** Bass clef. Measures 1-4: whole rest. Measures 5-8: quarter notes G3, A3, B3, C4. Measures 9-12: quarter notes D4, E4, F4, G4. Measures 13-16: quarter notes G4, F4, E4, D4.
- Staff 11:** Bass clef. Measures 1-16: quarter notes G3, A3, B3, C4, D4, E4, F4, G4, A4, B4, C5, D5, E5, F5, G5, A5.
- AM:** A single track with a square pulse in the first measure, followed by a series of vertical tick marks in each subsequent measure.



# Simple Automata

99

1

2

3

4

5

6

7

8

9

10

11

AM

Detailed description: This musical score is for a piece titled 'Simple Automata'. It consists of 11 numbered staves and an 'AM' (Automated Mix) track at the bottom. The music is written in a key signature of three sharps (F#, C#, G#) and a common time signature. The notation includes various rhythmic patterns such as eighth and sixteenth notes, as well as rests. The staves are arranged vertically, with the top staff (1) starting with a treble clef and the bottom staff (11) starting with a bass clef. The 'AM' track is represented by a series of vertical lines on a horizontal staff, indicating the automated mix levels for each staff.

# Simple Automata

107

1 *(Treble clef)* F4 F4 F4 F4 | F4 F4 F4 F4 | - | - | - | - | - | - |

2 *(Treble clef)* D4 D4 D4 D4 | D4 D4 D4 D4 | D4 D4 D4 D4 | D4 D4 D4 D4 | D4 D4 D4 D4 | D4 D4 D4 D4 | D4 D4 D4 D4 | D4 D4 D4 D4 |

3 *(Treble clef)* - | - | F4 F4 F4 F4 | F4 F4 F4 F4 | - | - | F4 F4 F4 F4 | F4 F4 F4 F4 |

4 *(Treble clef)* F4 F4 F4 F4 | F4 F4 F4 F4 | F4 F4 F4 F4 | F4 F4 F4 F4 | - | - | - | - |

5 *(Treble clef)* - | - | B4 B4 B4 B4 | B4 B4 B4 B4 | B4 B4 B4 B4 | B4 B4 B4 B4 | B4 B4 B4 B4 | B4 B4 B4 B4 |

6 *(Treble clef)* - | - | - | - | C5 C5 C5 C5 | C5 C5 C5 C5 | C5 C5 C5 C5 | C5 C5 C5 C5 |

7 *(Treble clef)* - | - | - | - | - | - | - | - | B4 B4 B4 B4 | B4 B4 B4 B4 |

8 *(Treble clef)* - | - | - | - | - | - | - | - | - | - |

9 *(Bass clef)* F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 |

10 *(Bass clef)* F3 F3 F3 F3 | F3 F3 F3 F3 | - | - | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 | F3 F3 F3 F3 |

11 *(Bass clef)* C4 C4 C4 C4 | C4 C4 C4 C4 | - | - | - | - | C4 C4 C4 C4 | C4 C4 C4 C4 |

AM *(Piano roll)* | | | | | | | |

Simple Automata

115

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
AM

"oau!"