

---

```

% Histogram of motif frequencies
motifs = [2 5 2 3 5 2 5 3 2]
histogram(motifs);
title('Motif Frequency');
xlabel('Motif Number');
ylabel('Count');

% Line plot of motif sequence
plot(motifs, '-o'); %'-o' = line with circle at each point
title('Motif Sequence Over Time');
xlabel('Time Step'); % when the motif occurred
ylabel('Motif Code'); % which motif was performed

% Import data from a CSV file into a table
T = readtable(['motif_data.csv - Sheet1.csv'])

% Display the first few rows of the table
disp(T(1:5, :));

```

```

motifs =

```

```

     2     5     2     3     5     2     5     3     2

```

*Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating variable names for the table. The original column headers are saved in the VariableDescriptions property.  
Set 'VariableNamingRule' to 'preserve' to use the original column headers as table variable names.*

```

T =

```

```

3×4 table

```

<i>Timestamp_Frame</i>	<i>Motif</i>	<i>Duration</i>	<i>Performer</i>
{':16'}	{'A: hand curl' }	{'6 sec' }	{'Dancer 1'}
{':36'}	{'B: back' }	{'23 sec' }	{'Dancer 1'}
{':58'}	{'C: head circle'}	{'65 sec' }	{'Dancer 1'}

```

Error using () (line 133)
Row index exceeds table dimensions.

```

```

Error in motif_script (line 18)
disp(T(1:5, :));
^^^^^^^^^^

```

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