

Example

# BPM Masters

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<b>published:</b>	October 2017
<b>description:</b>	Macros for double, half, tap, reset each of the BPM masters.
<b>remarks:</b>	This is based on the <a href="#">fixed Titan IDs</a> which we found exactly for these macros.

## functions

- [Masters.DoubleOrHalfSpeedMultiplier](#)
- [Masters.TapTempo](#)
- [Math.GetCurrentTimeStamp](#)
- [Masters.ResetSpeedMultiplier](#)

The file

`adb_bpmmaster.xml`

has the macros already written for all 4 BPM masters. Here, we use BPM master 1 to explain it.

## Code

`bpmmasters.xml`

```
<?xml version="1.0" encoding="utf-8"?>
  <macro id="Avolites.Macros.BPM1half" name="adb_BPM1 /2">
    <sequence>
      <step>Masters.DoubleOrHalfSpeedMultiplier(1607,false)</step>
    </sequence>
  </macro>

  <macro id="Avolites.Macros.BPM1tap" name="adb_BPM1 tap">
    <sequence>
      <step>Masters.TapTempo(1607, Math.GetCurrentTimeStamp())</step>
    </sequence>
  </macro>

  <macro id="Avolites.Macros.BPM1double" name="adb_BPM1 *2">
    <sequence>
      <step>Masters.DoubleOrHalfSpeedMultiplier(1607,true)</step>
    </sequence>
  </macro>

  <macro id="Avolites.Macros.BPM1*1" name="adb_BPM1 *1">
    <sequence>
      <step>Masters.ResetSpeedMultiplier(1607)</step>
    </sequence>
  </macro>
```

```
</macro>  
</avolites.macros>
```

## Explanation

This explains the functional steps within the sequence. For all the other XML details please refer to [Formats and syntax](#)

- `Masters.DoubleOrHalfSpeedMultiplier(1607, false)` halves the bpm speed of bpm master 1 which is identified by its fixed titan ID
- `Masters.DoubleOrHalfSpeedMultiplier(1607, true)` doubles the bpm speed of bpm master 1 which is identified by its fixed titan ID
- `Masters.TapTempo(1607, Math.GetCurrentTimeStamp())` taps the bpm speed of bpm master 1 which is identified by its fixed titan ID. The timestamp is a required parameter for this function to work, see [Masters.TapTempo](#)
- `Masters.ResetSpeedMultiplier(1607)` resets the bpm speed of bpm master 1 which is identified by its fixed titan ID

## How to use it

1. [make this macro available](#)
2. apply when needed (you'll see the results when you have BPM masters assigned)

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Last update: **2017/11/24 16:00**

