

Just thought I'd put some info here in case this gets looked at in the future as audio triggering capabilities are extended.

instruments.xml is probably the easiest place to put this, but it would have to be put there manually.

instruments.xml is clearly laid out for General MIDI, which is great for getting something simple outputting, but GM is completely useless for triggering anything more elaborate (VSTs, etc).

For example:

```
<Instrument id="violins">
  <family>orchestral-strings</family>
  <longName>Violins</longName>
  <shortName>Vlins.</shortName>
  <description>Violins</description>
  <musicXMLid>strings.group</musicXMLid>
  <clef>G</clef>
  <barlineSpan>1</barlineSpan>
  <aPitchRange>55-88</aPitchRange>
  <pPitchRange>55-103</pPitchRange>
  <Channel name="arco">
    <controller ctrl="32" value="21"/> <!--Violins Fast Expr.-->.
    <program value="48"/> <!--String Ensemble 1-->
  </Channel>
  <Channel name="pizzicato">
    <controller ctrl="32" value="20"/> <!--Violins Pizzicato-->.
    <program value="45"/> <!--Pizzicato Strings-->
  </Channel>
  <Channel name="tremolo">
    <controller ctrl="32" value="21"/> <!--Violins Tremolo Expr.-->.
    <program value="44"/> <!--Tremolo Strings-->
  </Channel>
  <genre>orchestra</genre>
</Instrument>
```

What you could do is something like this snippet:

```
<Channel name="pizzicato">
  <gm midi>
    <controller ctrl="32" value="20"/> <!--Violins Pizzicato-->.
    <program value="45"/> <!--Pizzicato Strings-->
  </gm midi>
  <midi>
    <port value="16"/>
    <channel value="16"/>
  </midi>
</Channel>
```

Using those <midi> values for Mixer settings would be useful. Of course this doesn't fix the issue of MIDI settings not being saved in the template, but this might be an easy implementation and allows

configuration (even though it's not easily alterable). Since it's possible to dynamically load an instruments.xml file in preferences, people would at least have the option of saving different customized setups and loading them up. I like the idea of having the MIDI configuration in a readable xml format, so that extending it would be possible. I'd like to write a script that would search for the instrument names and articulations and automatically make the various MIDI connections to a DAW, maybe even automatically create the tracks in a DAW.

If saving in a template is desired, musescore might need to save the instruments.xml along with the score settings.

Maybe instruments.xml could be appended to score settings, and allow the user to override it by instruments.xml that's listed in preferences.