

Shapefile Structure

The shapefile (for its location see [Custom Shapes](#)) is a very basic xml file. Essentially it looks like this (the file shown is abbreviated and not operational in Titan):

```
<?xml version="1.0" encoding="UTF-8"?>
<ShapeFile>
    <History Date="05-11-2017" Author="Sebastian Beutel" Comments="Created simplified version for wiki as example."/>
    <Pattern ID="Sine">
        <Function ID="1" Value="0"/>
        ...
        <Function ID="17" Value="1000"/>
        ...
        <Function ID="33" Value="0"/>
        <Function ID="34" Value="-98"/>
        ...
        <Function ID="64" Value="-98"/>
    </Pattern>
    <Pattern ID="Cosine">
        ...
    </Pattern>
    <Shape ID="1" Name="Circle" Group="P">
        <Function ChannelID="Pan" PatternID="Sine" Amplitude="200" Phase="270" Speed="15"/>
        <Function ChannelID="Tilt" PatternID="Sine" Amplitude="200" Phase="0" Speed="15"/>
    </Shape>
    <Shape ID="2" Name="Spiral" Group="P">
        <Function ChannelID="Pan" PatternID="Spiral" Amplitude="200" Phase="0" Speed="3"/>
        <Function ChannelID="Tilt" PatternID="Spiral" Amplitude="200" Phase="11" Speed="3"/>
    </Shape>
    ...
    <Shape ID="159" Name="Saturation Saw" Group="C">
        <Function ChannelID="Saturation" PatternID="Saw" Amplitude="1000" Phase="0" Speed="29"/>
    </Shape>
</ShapeFile>
```

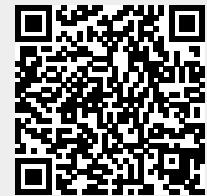
The general structure of an XML file is explained in more detail [in the macros section](#).

- there is the XML declaration `<?xml version="1.0" encoding="UTF-8"?>`
- there is the root element `<ShapeFile>` which encloses the entire contents and is finally closed with `</ShapeFile>`
- there is a number of History entries which simply show the development of this file: `<History Date="05-11-2017" Author="Sebastian Beutel" Comments="Created simplified version for wiki as example."/>`

- there is a number of <Pattern ...> elements which define the modulation curve, see [Pattern Definitions](#)
- there is a number of <Shape ...> elements which define the shapes available in Titan, see [Shape Definitions](#)

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