A WEB based Approach to Music Notation using GUIDO

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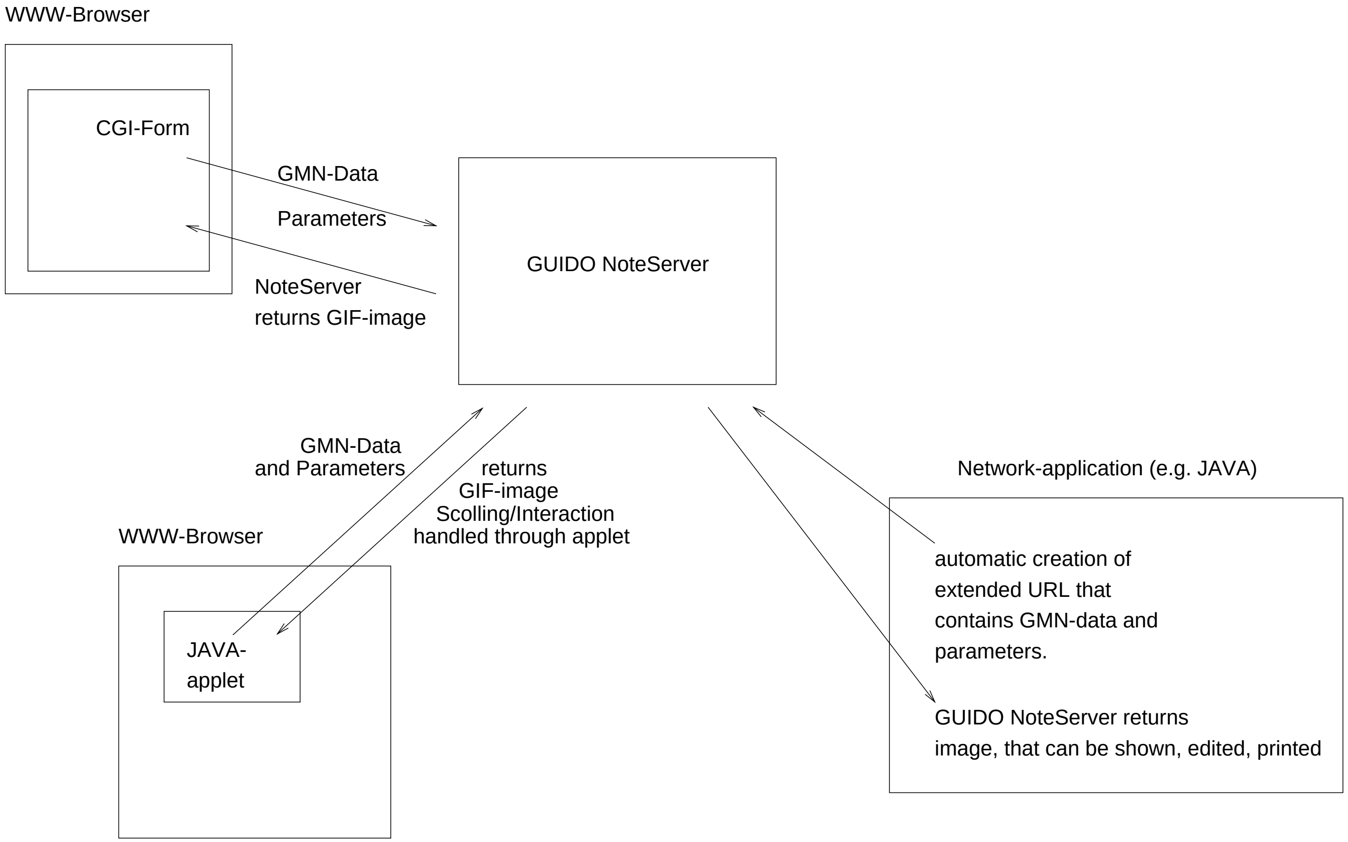
Introduction

- GUIDO
- The GUIDO NoteServer
  - Architecture
  - Usage
- Examples
- Ongoing Work

GUIDO NoteServer – Architecture

- Converts GUIDO-Notation into Conventional Musical Notation
- Outputs either GIF or Postscript-Files
- Can be used to display Music Notation on any WEB page

GUIDO NoteServer – Usage I



GUIDO NoteServer – Usage II

- CGI-Interface
- JAVA-Applet
- Direct Access using Extended URL

Usage – JAVA-Applet

```
<html>
<body>
<applet code="GuidoSimpleApplet"  width=650  height=450 >
 <PARAM NAME=server VALUE='hp3.iti.informatik.tu-darmstadt.de'>
 <PARAM NAME=noten VALUE='
{ [ \staff<1> \meter<"3/4"> \stemsUp
    c2*1/4 c d h1. c2/8 d/4 e e f e. d/8 c/4 d c h1 c2/2. ],
  [ \staff<1> \stemsDown \slur(e1*1/4 e g d/2. e/2) d/4 c/2 e/4 f e g e/2. ],
  [ \staff<2> \clef<"bass"> \meter<"3/4">
    c0/2. g-1 c0/2 f-1/4 c0/2 a-1/4 f g/2 c0/2. ] } '>
</applet>
</body>
</html>
```

Usage – Extended URL

- Is created when using Standard CGI Input form
- Can be used to embed pictures directly into WEB pages
- Example:

```
http://hp3.iti.informatik.tu-darmstadt.de/scripts/salieri/
gifserv.pl?id=noteserver&outputformat=gif87
&pixelwidth=0&pixelheight=0&zoomfactor=1.0
&gmndata=%5B+c+d+e+%5D&submit=+++Send++
```

Future Work

- Improving the input-form (keyboard-panel)
- Realising a NoteServer-Protocol on a TCP/IP-Port
- Improving the general performance of the NoteServer