

Meilenstein 4: Vorstellung des Prototypen



PAVIAN

Parsing and
Visualization of
Arithmetic
Notations

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$$-\frac{p}{2} \pm \sqrt{\frac{p^2}{4} - q}$$

Agenda:

- ✓ project description & aims
- ✓ examples (PAVIAN applet)
- ✓ design implementation
- ✓ occurred problems
- ✓ open issues

✓ project description & aims

- Description

- A Java applet visualizing mathematical expressions

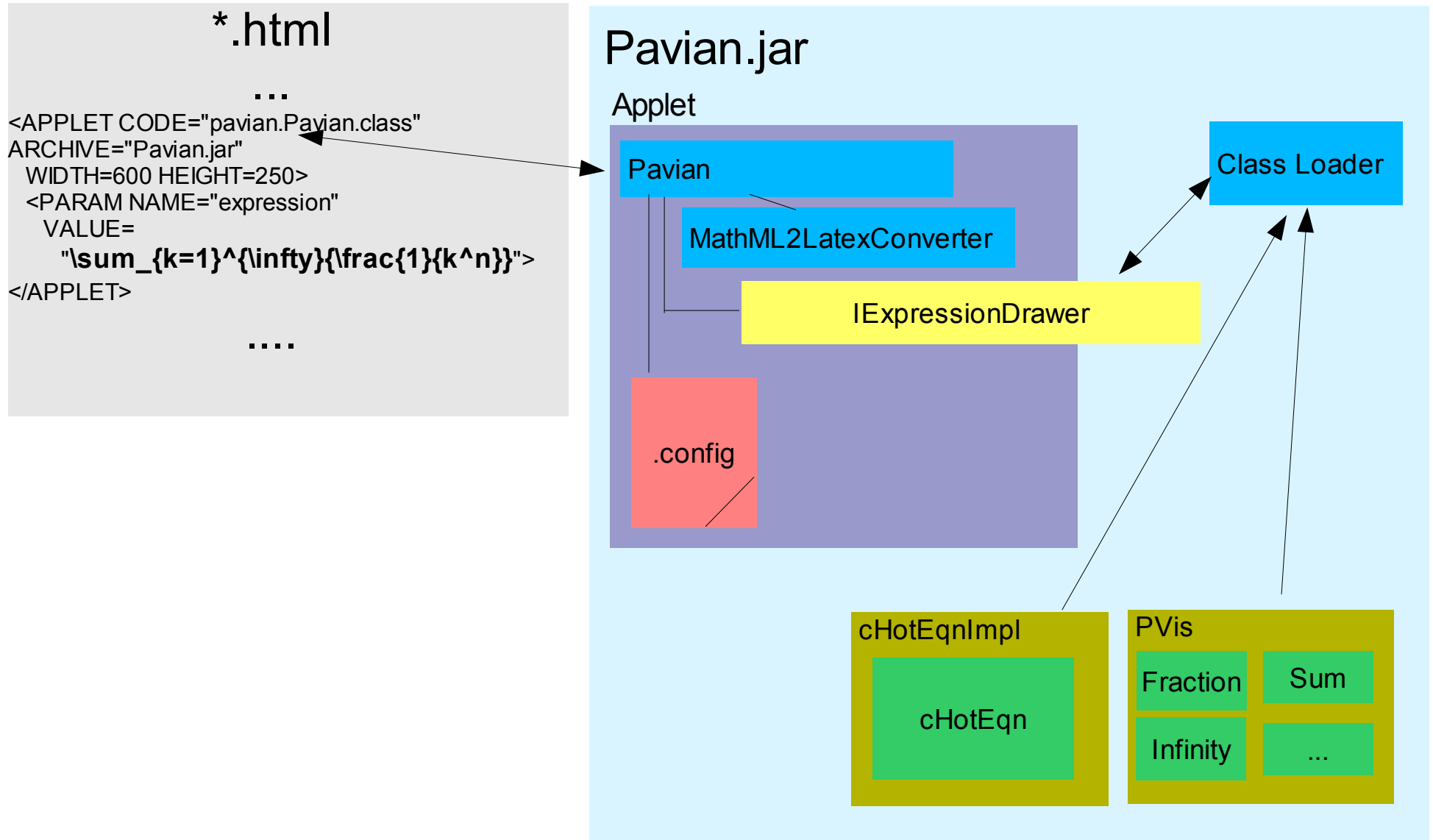
- Aims

- support various notations
 - scale back traffic
 - interoperability
 - easy handling
 - scalable architecture

✓ examples (PAVIAN applet)

- LaTeX + PVis
- LaTeX + HotEqnImpl
- MathML + HotEqnImpl

✓ design implementation



✓ occurred problems

- PAVIAN
 - MathML converter only works with JDK1.5 or new xlan.jar
 - Converter was unable to resolve xslt references
- Pvis
 - LaTeX2JEP converter caused difficulties
 - Size calculations inaccurate
- HotEqnImpl
 - Failed to resolve .class files
 - Unable to display visualization due to stupidity

✓ open issues

- Faster MathML2LaTeX transformation
- Reduce size
- Support more functions (PVis)
- Own font (Pvis)
- Better LaTeX2JEP converter (Pvis)
- Adaptive conversion
- LaTeX -> HTML+PAVIAN converter

Questions???

