Subject: Re: Eigen and UPP? (STL question?)
Posted by mr_ped on Fri, 13 May 2011 13:10:55 GMT
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Eigen has it's own Matrix type, which has it's own "to std::string" conversion routine.
Which makes std::cout << Eigen::MatrixXd to compile without problem.

Cout() is not std::ostream (or what's the base output stream in STL/C++, I have no idea), it's Upp::output stream (not sure about exact class name either).

So the compiler can't find the conversion function from Eigen::MatrixXd to Upp::String (which is most common input format for "<<" for Upp::ostream.

And dolik did just supply you with one conversion function for such situation.

NAMESPACE_UPP is macro to open Upp:: namespace, so you are with the next code defining
Upp::String Upp::AsString(const Eigen::MatrixXd& m)
function.
Then later during compiling "Cout() << m" that new method is perfect fit for silent auto conversion.