

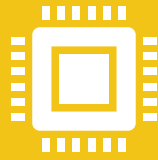


TEMPLATE META PROGRAMMING

WORKSHOP

By Hugo PRAT & Mathieu LALA

META PROGRAMMING



Programming technique to minimize the number of lines in a code

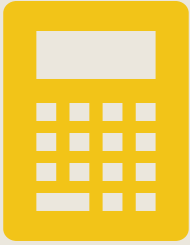


Move computation from run-time to compile-time



Was popular in the 1970s and 1980s and were popular for artificial intelligence

RUN-TIME & COMPILE TIME ?



Compile Time

Parsing

Preprocessing

Template generation / type deduction

Compilation

Linking



Run Time

Initialization of Memory

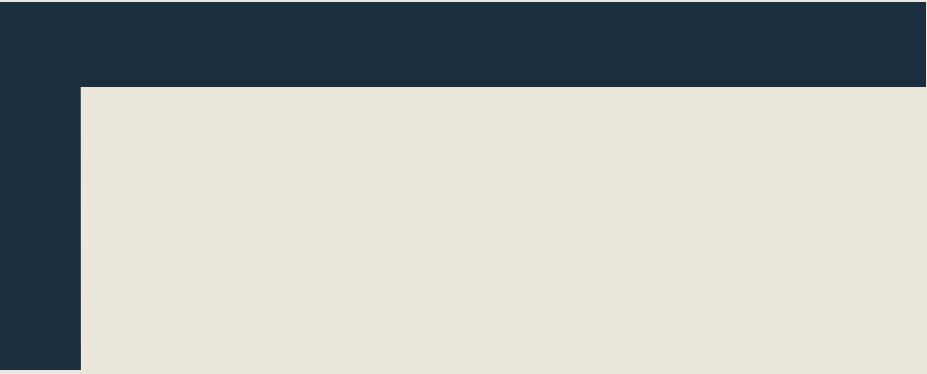
Execution

META PROGRAMMING + TEMPLATE

- Template are used to generate source code
- Merged by the compiler with the rest of source code and compiled

You will learn

- To use template in cpp (if you don't know already)
- Fews 'cheat' to generate source code



https://github.com/Mathieu-Lala/workshop_cpp_template



Good Luck