C++11 and LibreOffice

The future has arrived (it was about time)

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C++98

- First ISO C++ standard
- Poorly implemented for many years
- It has too many features
- But it lacks features
C++11

- Major revision of ISO C++ standard
- “C++11 feels like a new language” (Stroustrup)
- Commercially available compilers actually implement it
  - GCC
  - Clang
  - MSVC
- C++14 “bugfix release”
... and LibreOffice?

- Rewrite in Haskell Rust didn't happen yet
- If we're stuck with C++, then at least give us *modern* C++
Inspiration from other projects...

- LLVM is switching to C++11
- Minimum requirements:
  - Clang 3.1
  - GCC 4.7
  - MSVC 2012
- Offers a good subset of C++11, bringing both core and library improvements
## LibreOffice 4.3, C++98

<table>
<thead>
<tr>
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<th>TDF release</th>
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## LibreOffice 4.4 requires (some) C++11

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LibreOffice 4.5 will require even more C++11

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dropping MSVC 2012 for 2013: new features

- Variadic templates
- Initialize lists
- Default template arguments for function templates
- Explicit conversion operators
- Raw string literals
- Defaulted and deleted functions

...and dropping GCC 4.6 for 4.7 would allow...

- Non-static data member initializers
- Alias templates
- Delegating constructors
  
  https://gcc.gnu.org/projects/cxx0x.html

- (For completeness, clang's status)
  
  http://clang.llvm.org/cxx_status.html
Fin.
Thanks for your attention