

Add `make_proxy` for the Pointer-Semantics-Based Polymorphism Library - Proxy

Project: ISO/IEC 14882 Programming Languages — C++, ISO/IEC JTC1/SC22/WG21

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Abstract: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

1 Introduction

Paper 3086 proposed a *Pointer-Semantics-Based Polymorphism Library*, which is designed to help people build extendable and efficient polymorphic programs with better abstractions and less intrusive code. This paper is proposing the utility part that is separated from early versions of paper 3086 and paper 0957.

More specifically, we are eager to add function template *make_proxy* together with the *proxy* library into the standard as a library feature. *make_proxy* is designed to provide simple ways to construct *proxy* instances from values. Its syntax is similar to the constructors of `std::any`. With *make_proxy*, SBO (small buffer optimization) may implicitly apply, depending on library implementation.

2 Motivation

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3 Technical specification

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