Text

Description automatically generated

-original

Text

Description automatically generated

-remove unnecessary work from render()

A computer screen capture

Description automatically generated with medium confidence

-remove unnecessary work from trace() by introducing reflection and transparency check.

A computer screen capture

Description automatically generated with medium confidence

-attempt to optimize through a memory pool – dereferencing pointers and calling deconstructors is slowing the program down. Change implementation so that the memory pool holds a std::vector, and instead of deconstructing the object, it will change their pointer to nullptr.

Text

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-after deconstructors were removed, better but still slower. Move on to a different method.

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-screen space subdivision, splitting the work of the full image into multiple threads.

Text

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-attempt at threading the trace function. Crude implementation.

Graphical user interface, text, application

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