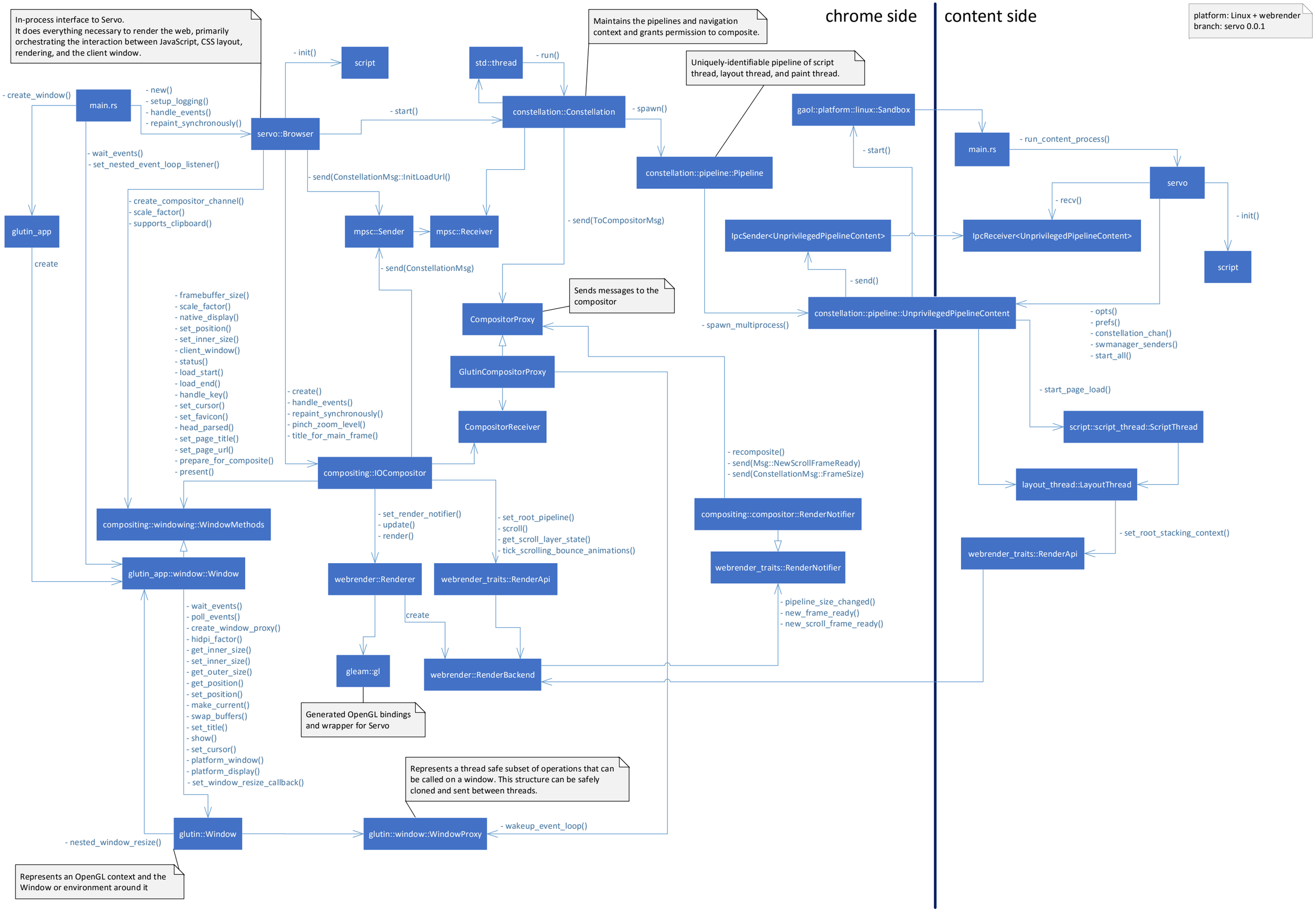
chrome side
content side
platform: Linux + webrender
branch: servo 0.0.1
In-process interface to Servo.
It does everything necessary to render the web, primarily orchestrating the interaction between JavaScript, CSS layout, rendering, and the client window.
Maintains the pipelines and navigation context and grants permission to composite.
Uniquely-identifiable pipeline of script thread, layout thread, and paint thread.
Sends messages to the compositor
Generated OpenGL bindings and wrapper for Servo
Represents a thread safe subset of operations that can be called on a window. This structure can be safely cloned and sent between threads.
Represents an OpenGL context and the Window or environment around it
main.rs
- create_window()
- new()
- setup_logging()
- handle_events()
- repaint_synchronously()
- wait_events()
- set_nested_event_loop_listener()
glutin_app
create
servo::Browser
- init()
script
- start()
std::thread
- run()
constellation::Constellation
- spawn()
constellation::pipeline::Pipeline
- send(ConstellationMsg::InitLoadUrl()
- create_compositor_channel()
- scale_factor()
- supports_clipboard()
mpsc::Sender
mpsc::Receiver
- send(ToCompositorMsg)
- send(ConstellationMsg)
- framebuffer_size()
- scale_factor()
- native_display()
- set_position()
- set_inner_size()
- client_window()
- status()
- load_start()
- load_end()
- handle_key()
- set_cursor()
- set_favicon()
- head_parsed()
- set_page_title()
- set_page_url()
- prepare_for_composite()
- present()
CompositorProxy
GlutinCompositorProxy
CompositorReceiver
- create()
- handle_events()
- repaint_synchronously()
- pinch_zoom_level()
- title_for_main_frame()
compositing::IOCompositor
compositing::windowing::WindowMethods
- set_render_notifier()
- update()
- render()
- set_root_pipeline()
- scroll()
- get_scroll_layer_state()
- tick_scrolling_bounce_animations()
webrender::Renderer
webrender_traits::RenderApi
create
gleam::gl
webrender::RenderBackend
glutin_app::window::Window
- wait_events()
- poll_events()
- create_window_proxy()
- hidpi_factor()
- get_inner_size()
- set_inner_size()
- get_outer_size()
- get_position()
- set_position()
- make_current()
- swap_buffers()
- set_title()
- show()
- set_cursor()
- platform_window()
- platform_display()
- set_window_resize_callback()
glutin::Window
- nested_window_resize()
glutin::window::WindowProxy
- wakeup_event_loop()
- recomposite()
- send(Msg::NewScrollFrameReady)
- send(ConstellationMsg::FrameSize)
compositing::compositor::RenderNotifier
webrender_traits::RenderNotifier
- pipeline_size_changed()
- new_frame_ready()
- new_scroll_frame_ready()
gaol::platform::linux::Sandbox
- start()
IpcSender<UnprivilegedPipelineContent>
- send()
constellation::pipeline::UnprivilegedPipelineContent
- spawn_multiprocess()
main.rs
- run_content_process()
servo
- recv()
- init()
IpcReceiver<UnprivilegedPipelineContent>
script
- opts()
- prefs()
- constellation_chan()
- swmanager_senders()
- start_all()
- start_page_load()
script::script_thread::ScriptThread
layout_thread::LayoutThread
- set_root_stacking_context()
webrender_traits::RenderApi