

Message Layer Security (MLS) Web API proposal

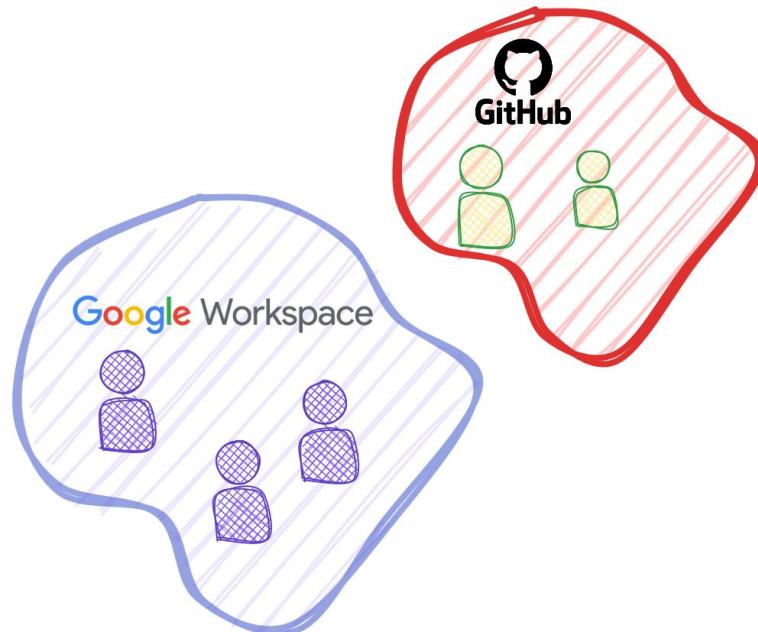
Anna Weine

Web-Based Apps and Group Functionality

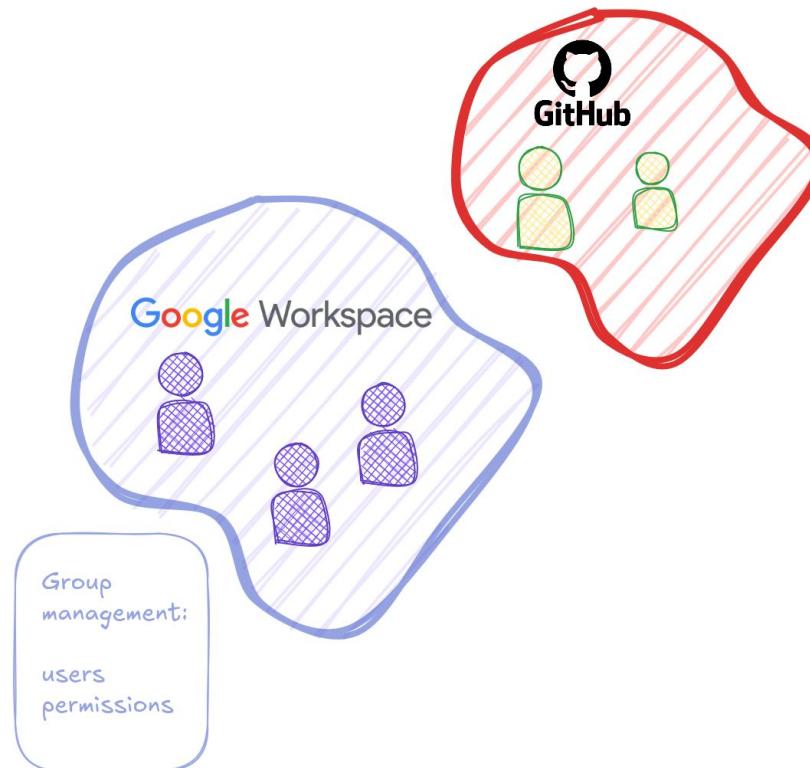
Web-Based Apps and Group Functionality



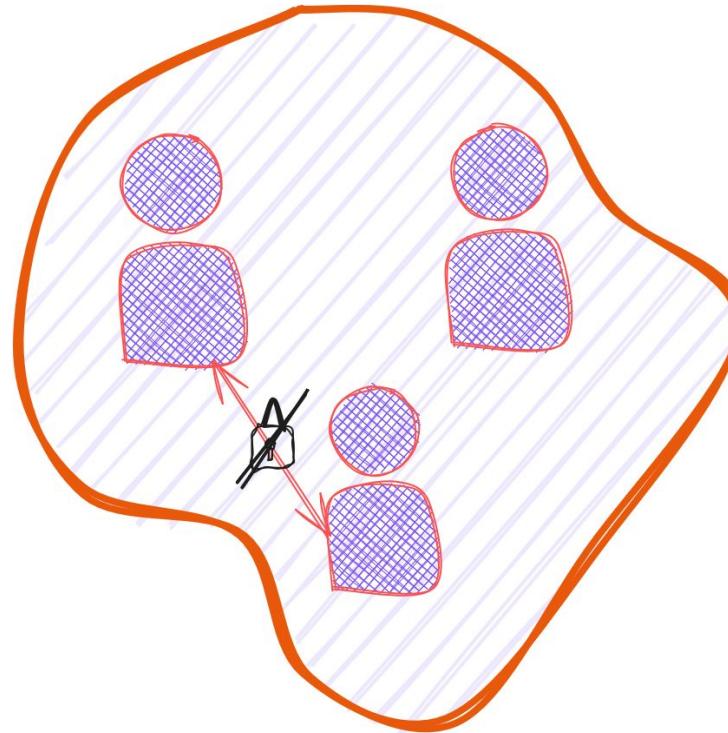
Web-Based Apps and Group Functionality



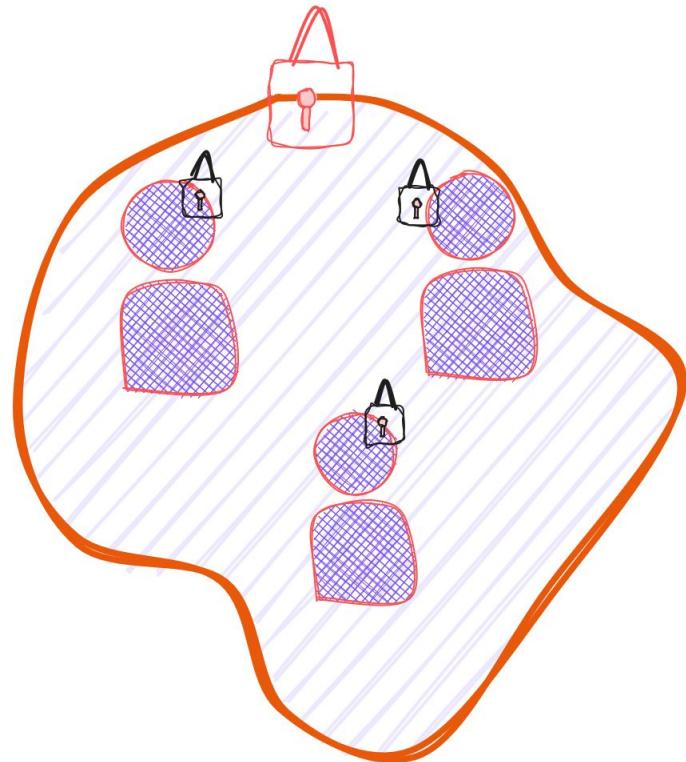
Web-Based Apps and Group Functionality



Web-Based Apps and Absence of E2E

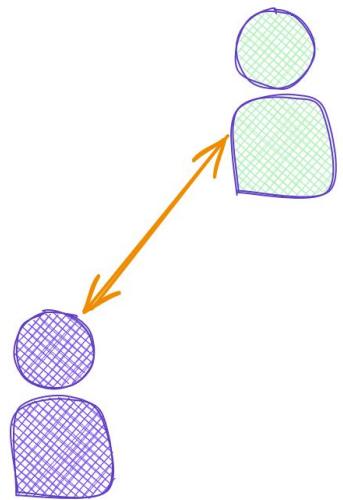


Web-Based Apps and Ideal Future

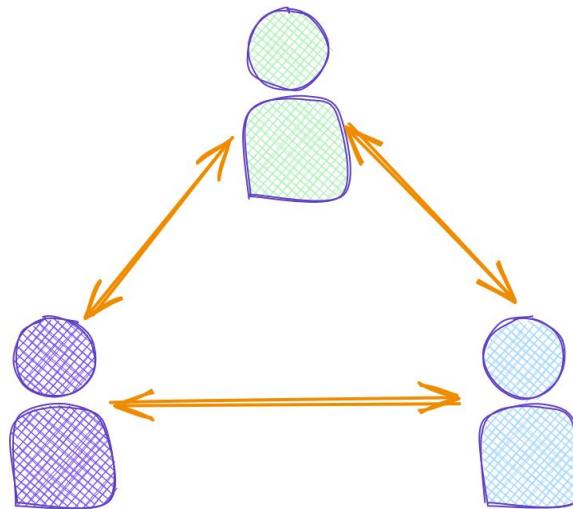


What's MLS and why do we care?

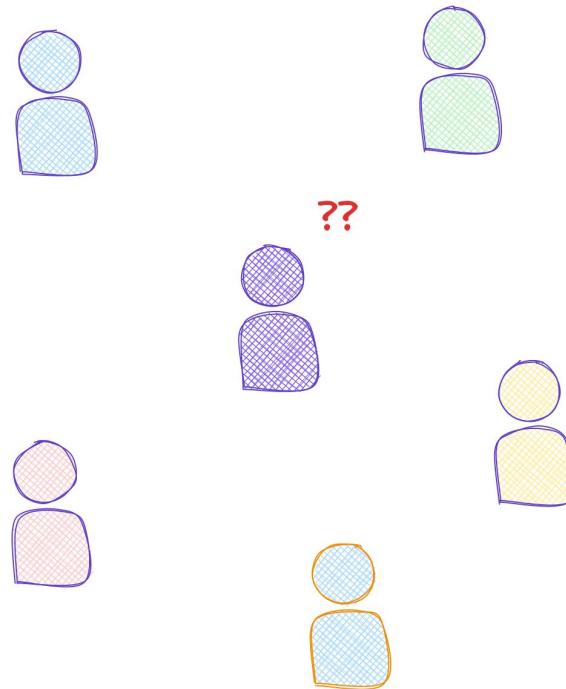
Traditional E2E communication



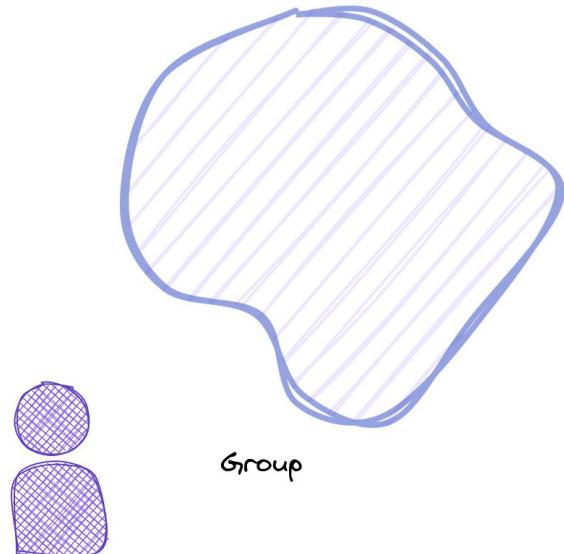
Traditional E2E communication



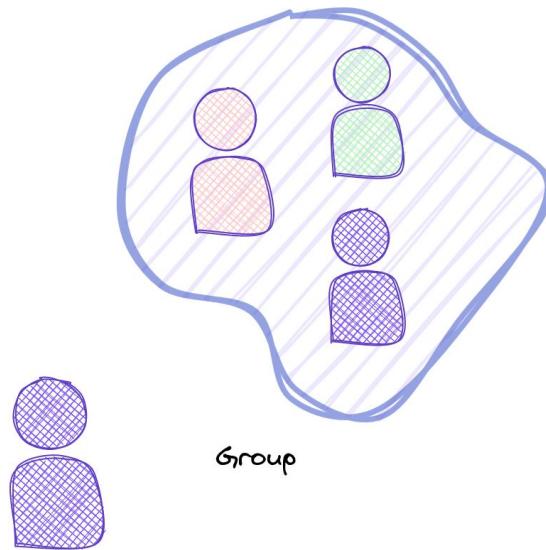
Traditional E2E communication



MLS solves this problem!

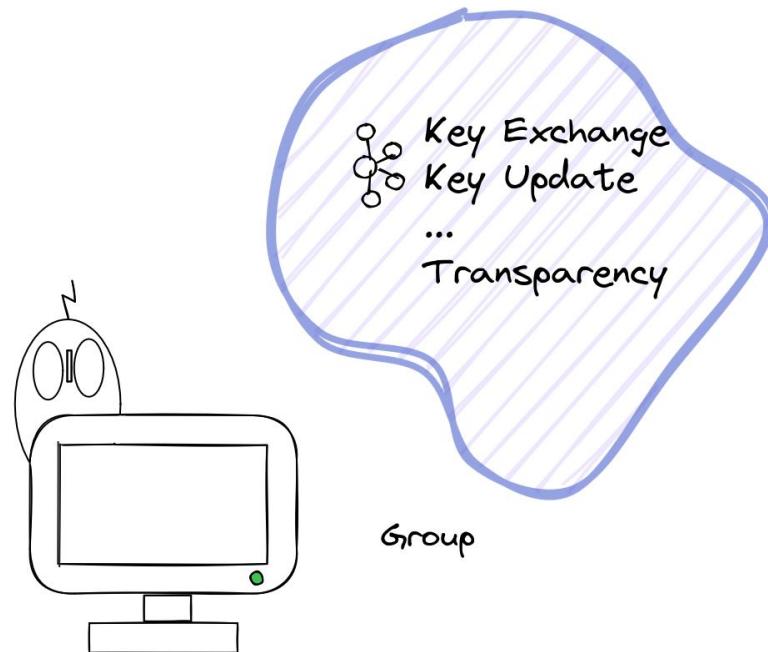


MLS solves this problem!

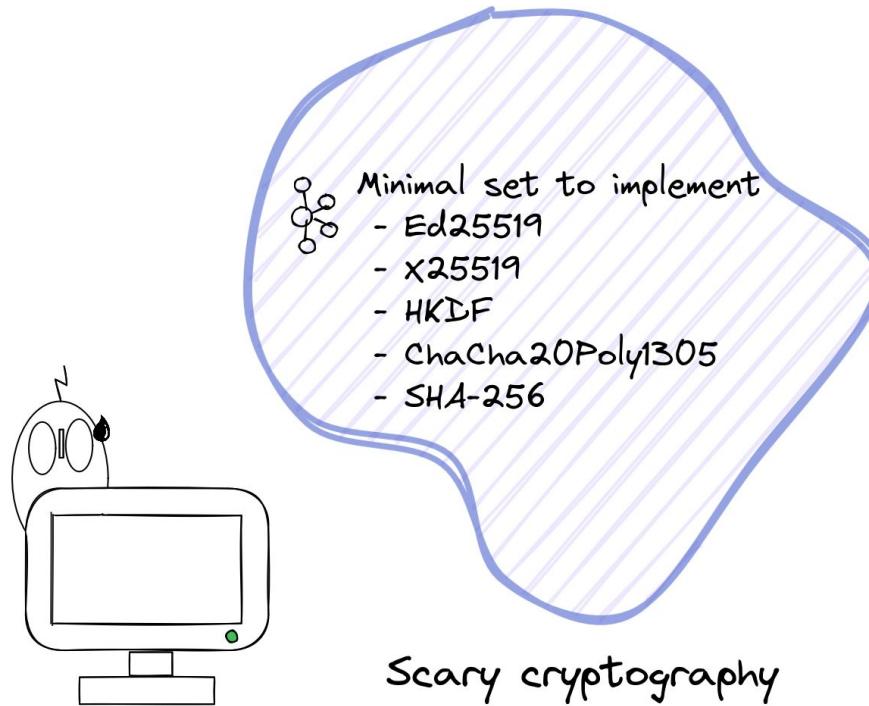


What's left is to implement

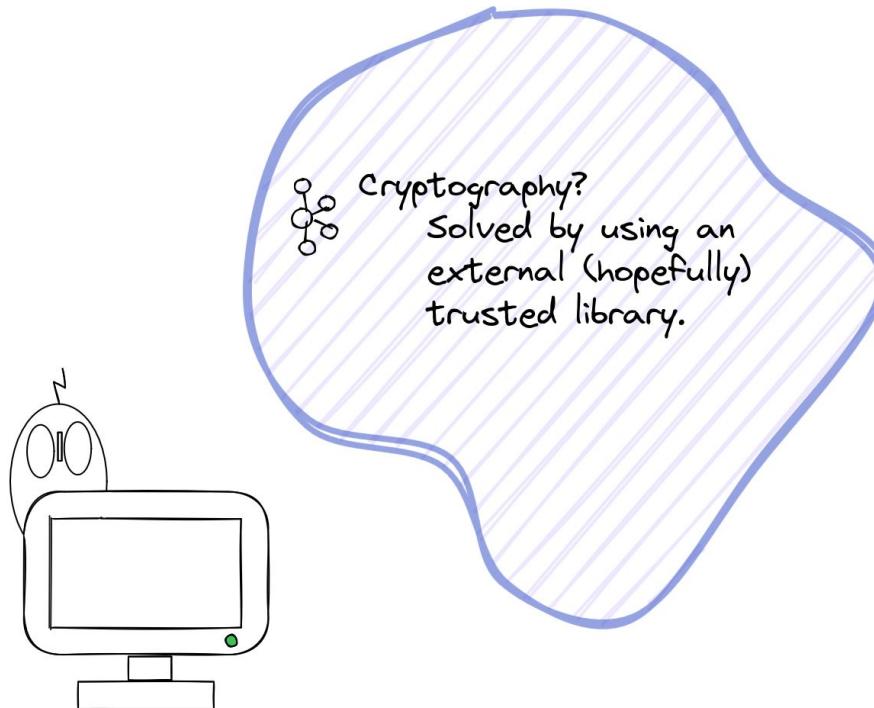
From the developer point of view - Challenge



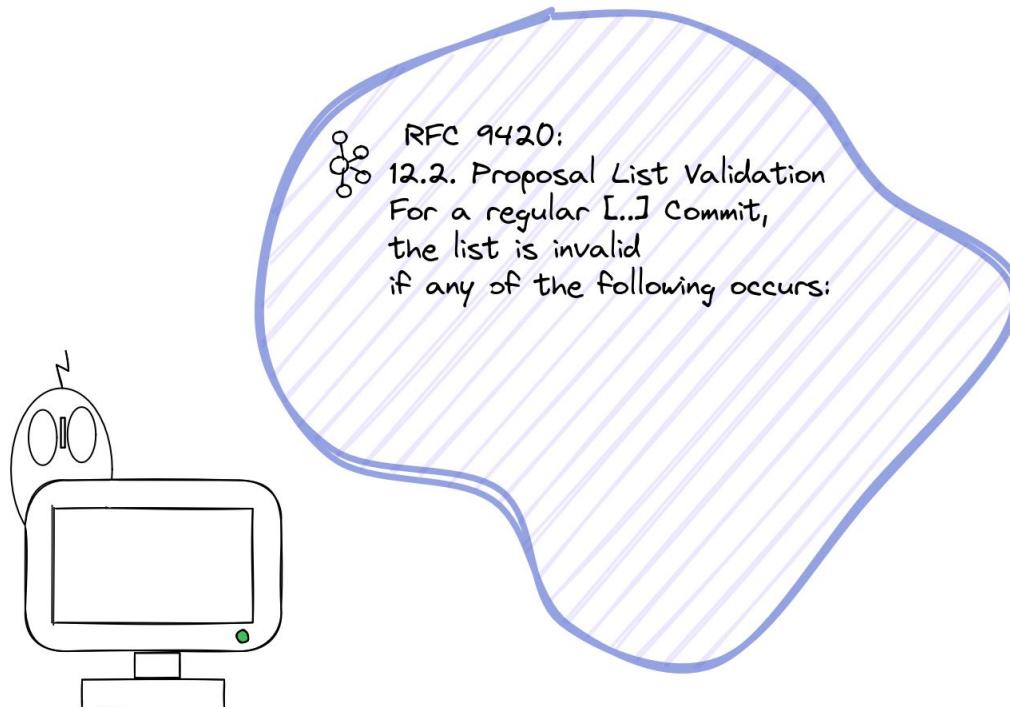
From the developer point of view



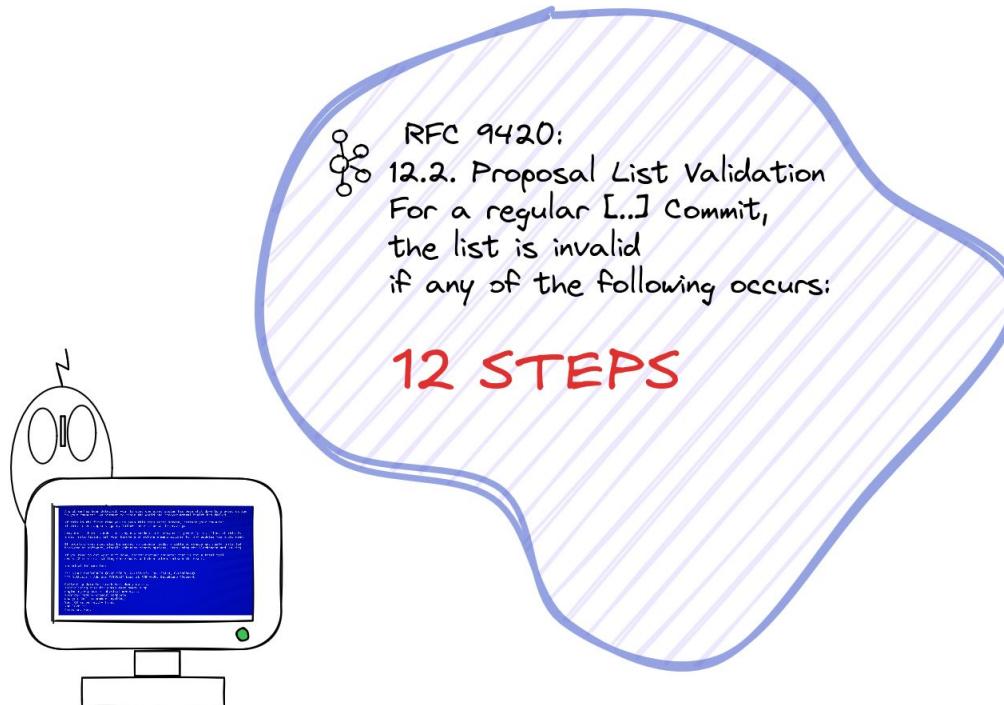
From the developer point of view



From the developer point of view

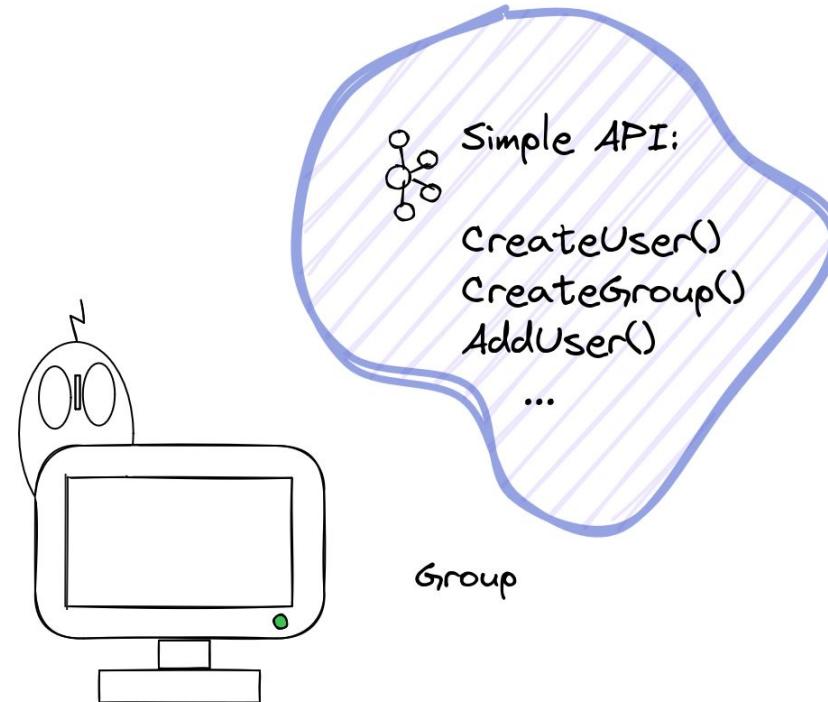


From the developer point of view

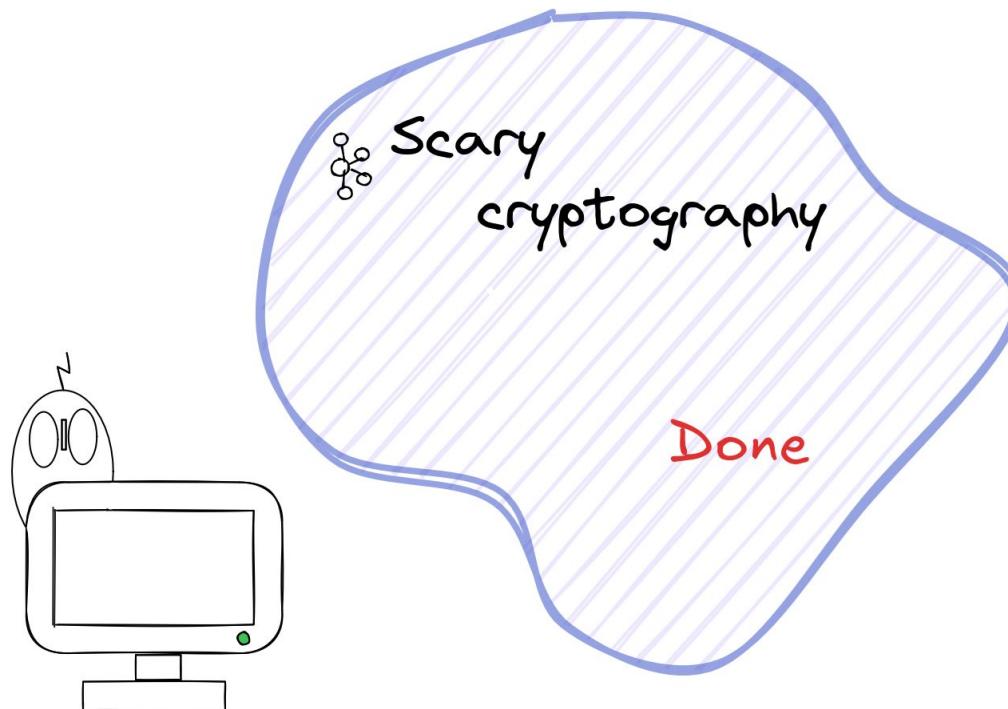


MLS WebAPI

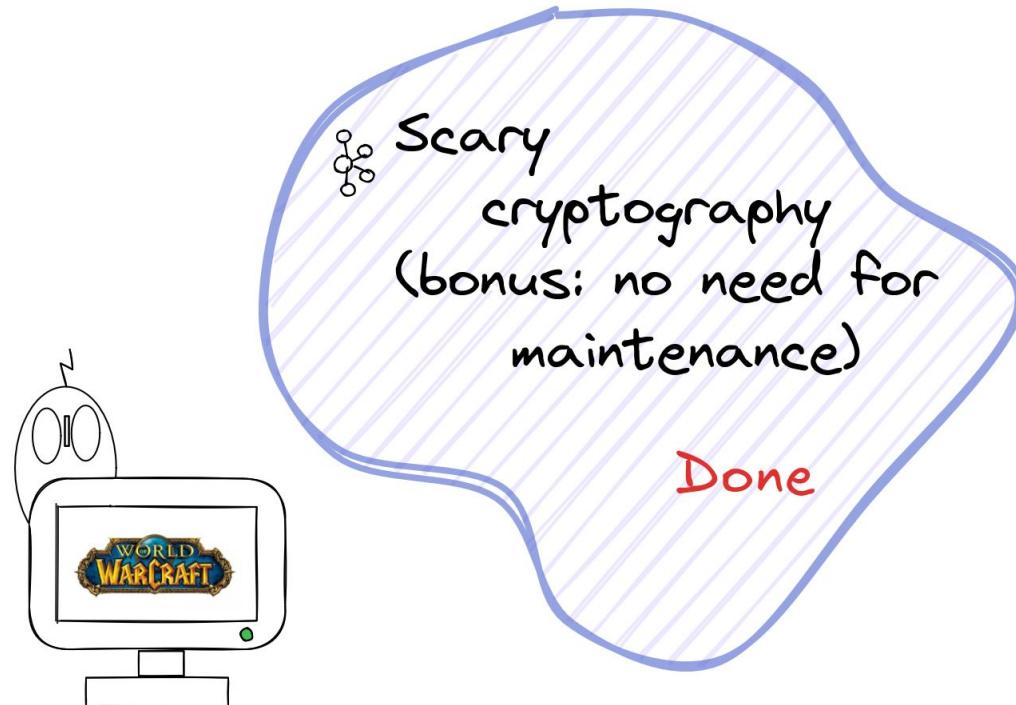
MLS WebAPI from the PoV of a developer



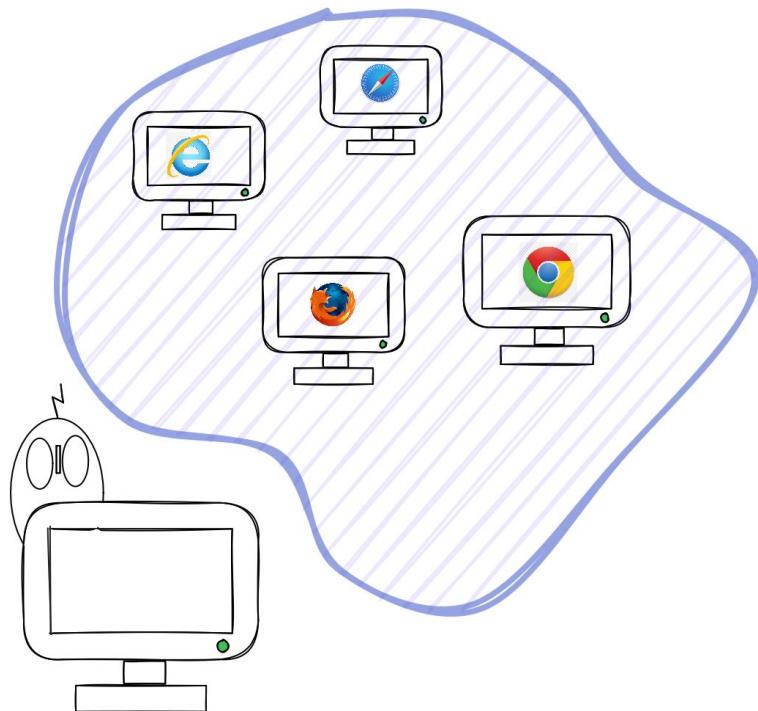
No need to implement complicated cryptography



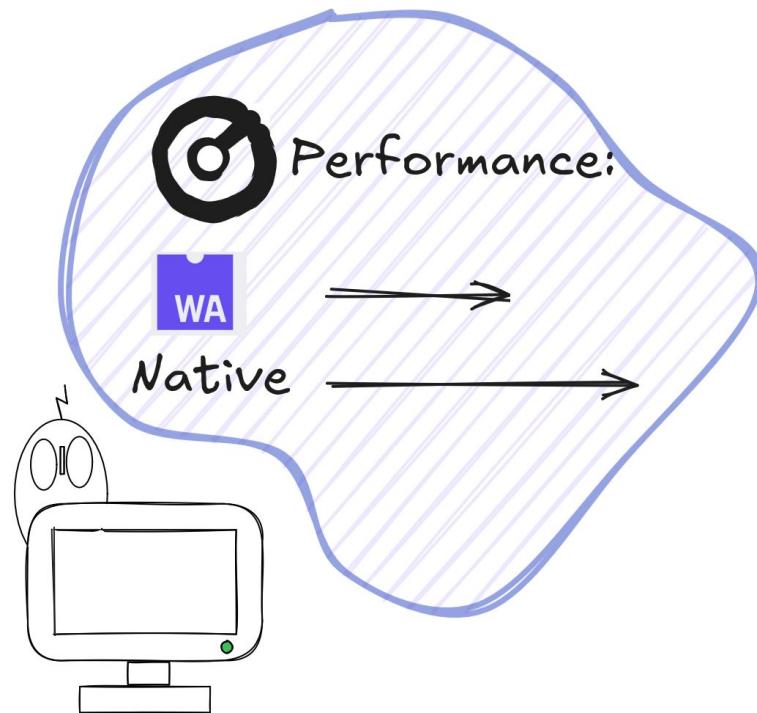
No external cryptography providers



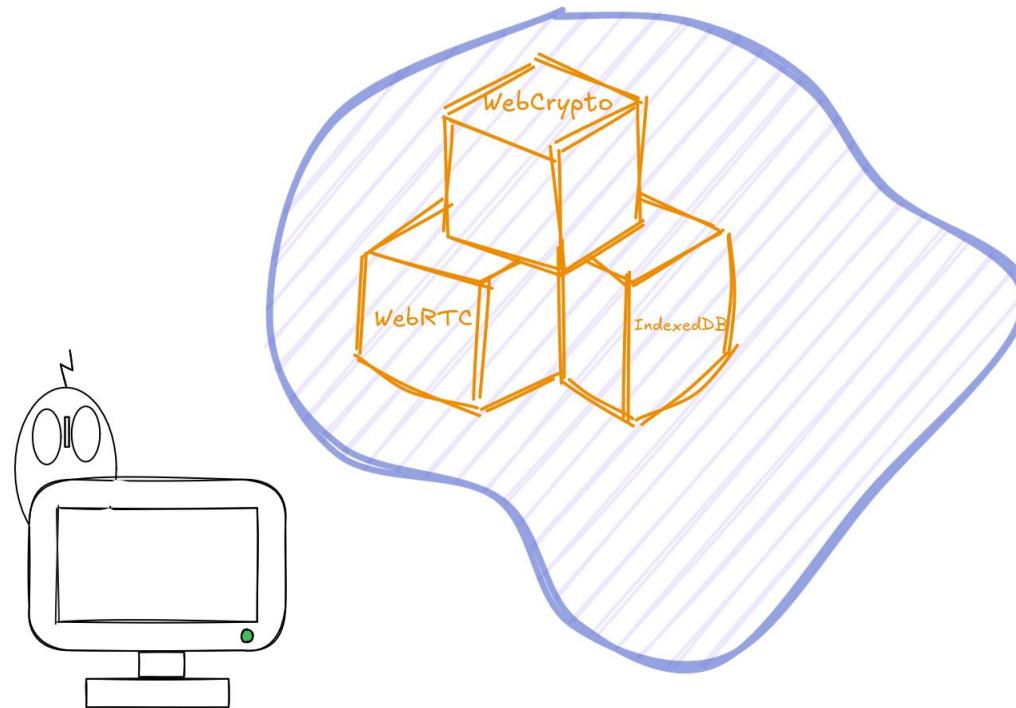
One API to rule them all



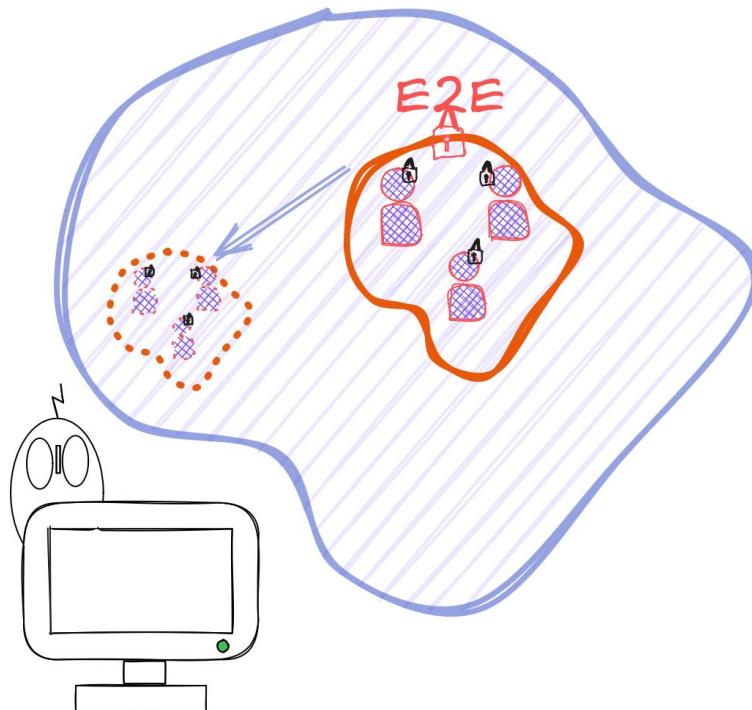
Native code and its benefits



Native code and its benefits

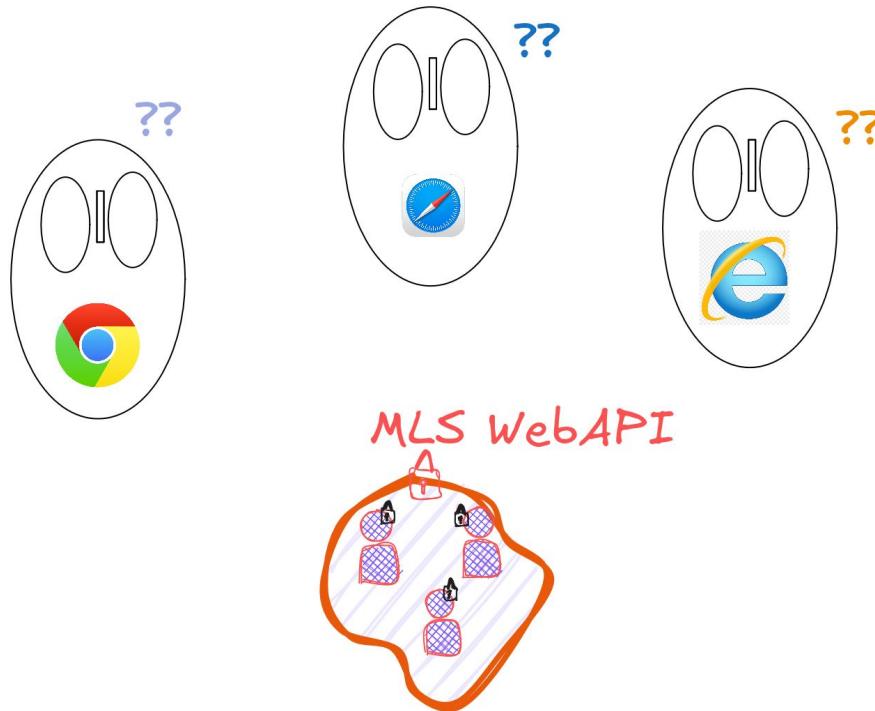


Browser-enabled transparency

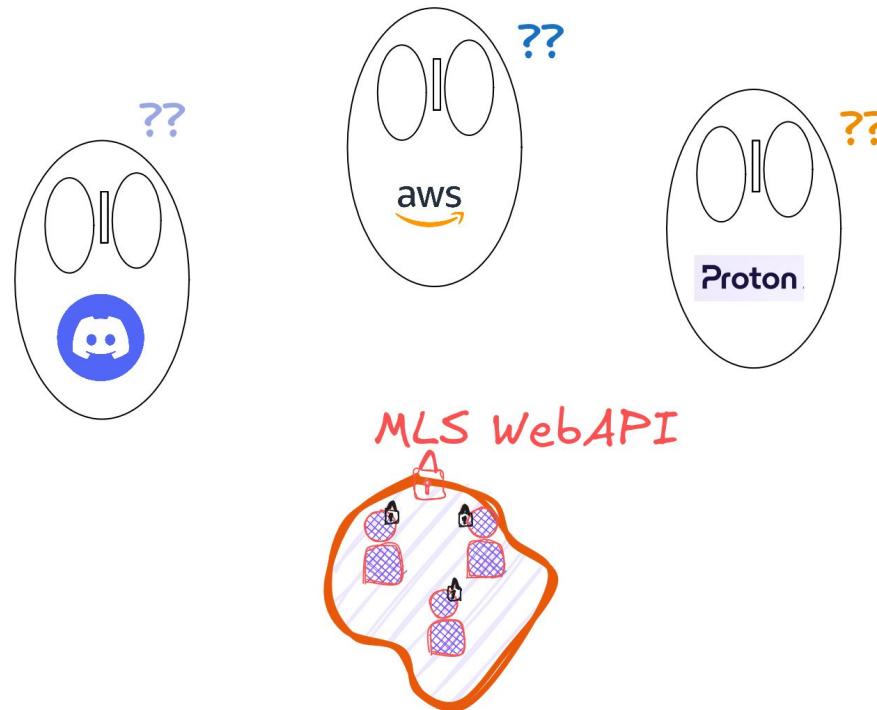


We might have an idea, but there is still a lot
of open questions...

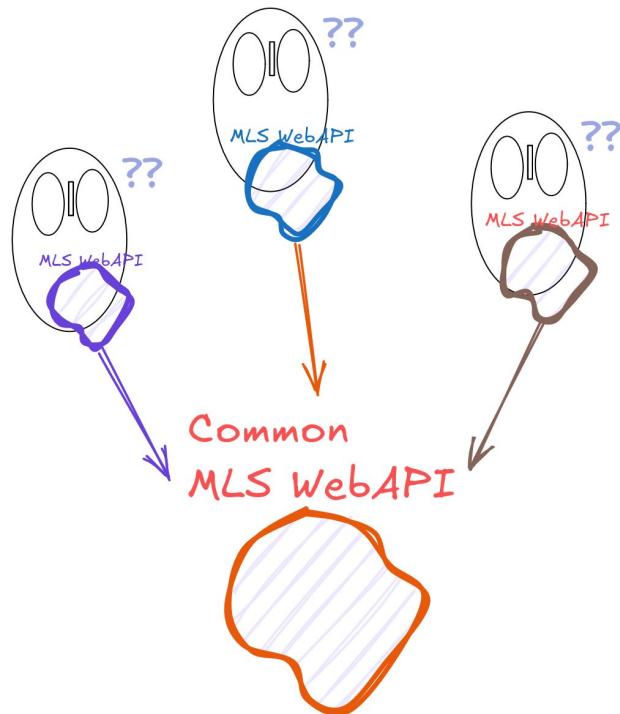
Interest from the browsers/developers?



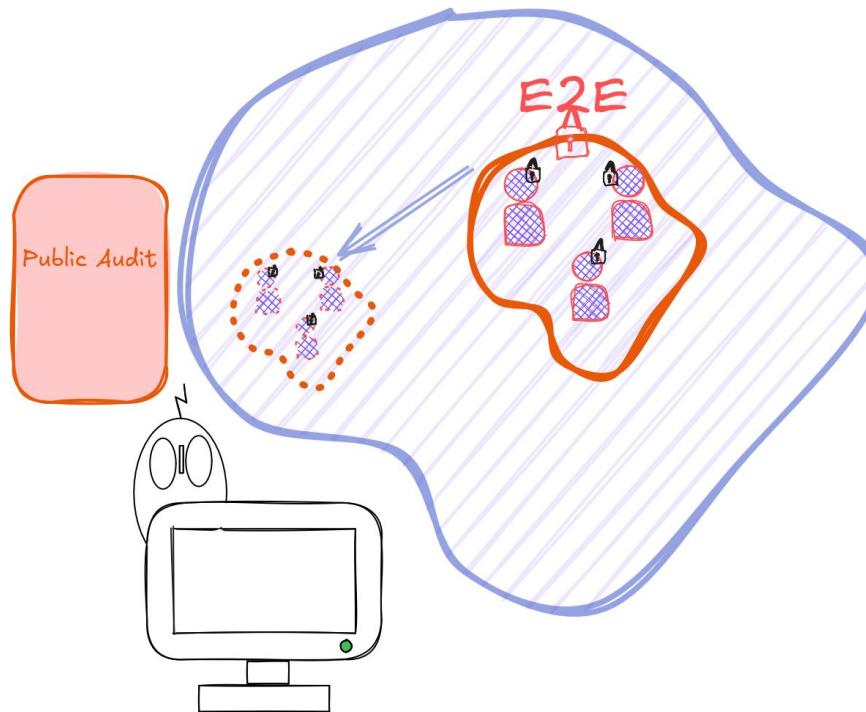
Interest from the browsers/developers?



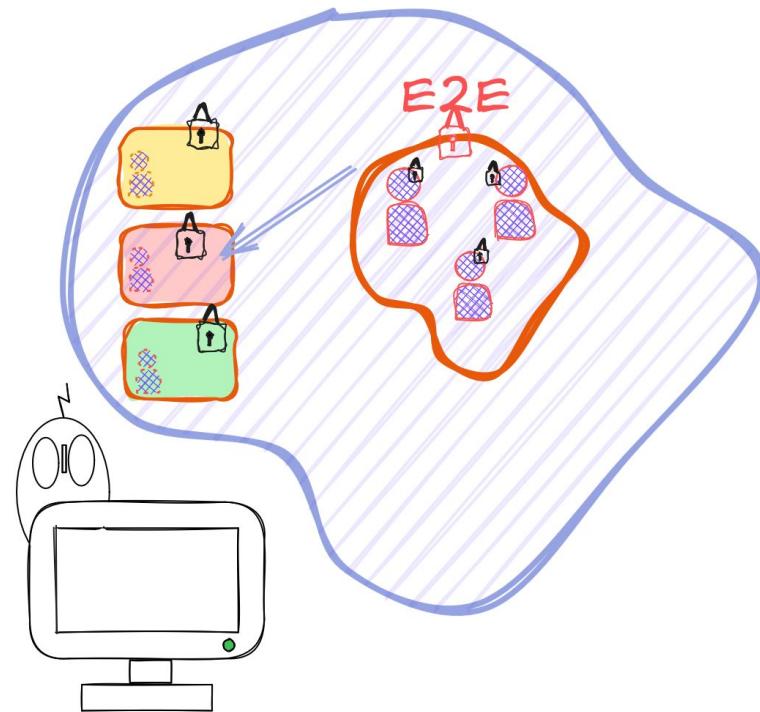
The Core MLS WebAPI, who wants what?



Browser role in group transparency



Partitioning and storage in the browser



MLS Web API proposal

Questions/Suggestions are welcome!

