

CSE 124 AND CSE 224:

**COMPILER-ASSISTED FRAMING AND
PARSING WITH PROTOCOL BUFFERS**

George Porter
Apr 24, 2025



ATTRIBUTION

- These slides are released under an Attribution-NonCommercial-ShareAlike 3.0 Unported (CC BY-NC-SA 3.0) Creative Commons license
- These slides incorporate material from:
 - <https://protobuf.dev/programming-guides/proto3/>
 - <https://grpc.io/>

HELPFUL READING

- <https://protobuf.dev/programming-guides/proto3/>
- <https://grpc.io/>

TODAY'S ACTIVITY: A SMALL PROTOBUF DEMO

- We're going to write and read structured data generated via the protobuf framework
- Friday's TA discussion will add support for gRPC RPC calls (based on a different codebase and example)
- All code for this presentation is available on canvas

UC San Diego