## Gnomegg: A blazing-fast third-party destiny.gg chat server

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## 1 Data Schematic

Gnomegg is entirely backwards-compatible with the destiny.gg chat, and uses capnproto. Cap'n proto is generally regarded as the successor to Google's protobuf language, and is both platform and language-agnostic. Capnproto poses several benefits over protobuf. Namely:

- Cap'n Proto serves as both an interchange and in-memory storage format—no serialization necessary!
- Promise pipelining: subsequent messages relying on each other can be "squashed" into one message
- Cap'n Proto data can be transferred via a standard bytestream, and can be encrypted in an equally straightforward manner

Outlined below are each of the data types represented in Cap'n proto, for use in gnomegg.