Like rest uses JSON for communication, GRPC uses protocol buffer.

It is based on HTTP/2

It supports multiple languages like Java, C/C++, C#, PHP, node JS, C#, Ruby.

**Protocol buffers**

Interface definition language: Describe once and generate interfaces for any language.

Data Model: Structure of the request and response.

Wire Format: Binary format for network transmission.

Protocol buffers uses binary for transmitting request.

**Use cases of Protocol buffers:**

* **Build distributed applications:** In data-centers, In public/private cloud.
* **Client-Server communication:** Mobile, web, cloud, embedded systems, IOT.
* **Access Google Cloud services:** From Android and IOS devices, From everywhere else.