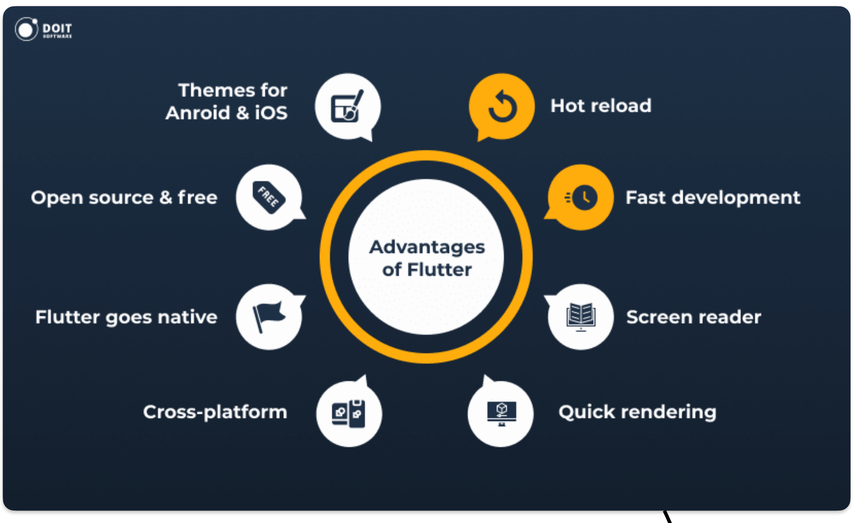
# Why Flutter?




# Why ProtoBuf

Schema file: commitment.proto

commitment.proto lib/protos

```
syntax = "proto3";

message CommitmentProto {
    string requestNumber = 1;
    string date = 2;
    string type = 3;
    string amount = 4;
    bool isContinued = 5;
    bool isApproved = 6;
    string description = 7;
}
```

1. OS, free
2. Faster than JSON
3. Fixed Schema
4. Small payload size(as no keys are sent)
5. Cannot be decoded without schema
6. Backward & forward compatibility
7. Less boilerplate code
8. Binary output
9. Vast language support (C, Java, Dart, JS, Go, etc.)
10. Compiler to compile to different languages
11. Supported by Google

"New fields can be introduced without worries, so future-proof"

# Why AES encryption?

- This robust security algorithm may be implemented in both hardware and software.
- It is resilient against hacking attempts, thanks to its higher-length key sizes (128, 192, and 256 bits).
- It is an open source solution. Since AES is royalty-free, it remains highly accessible for both the private and public sectors.
- AES is the most commonly used security protocol today, used for everything from encrypted data storage to wireless communications.

## Features of AES

•Symmetric Cipher
• Fixed Block length
• Variable Key length
• Variable Number of Rounds.
• Uses Substitution-Permutation Network.
• Available in three different Version(AES-128, AES192, AES 256)
• Certified by CRYPTREC, NESSIE, NSA, AES Winner