

# Intents In IBC

**STRANGELove**



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FOUNDER AND CEO STRANGELOVE

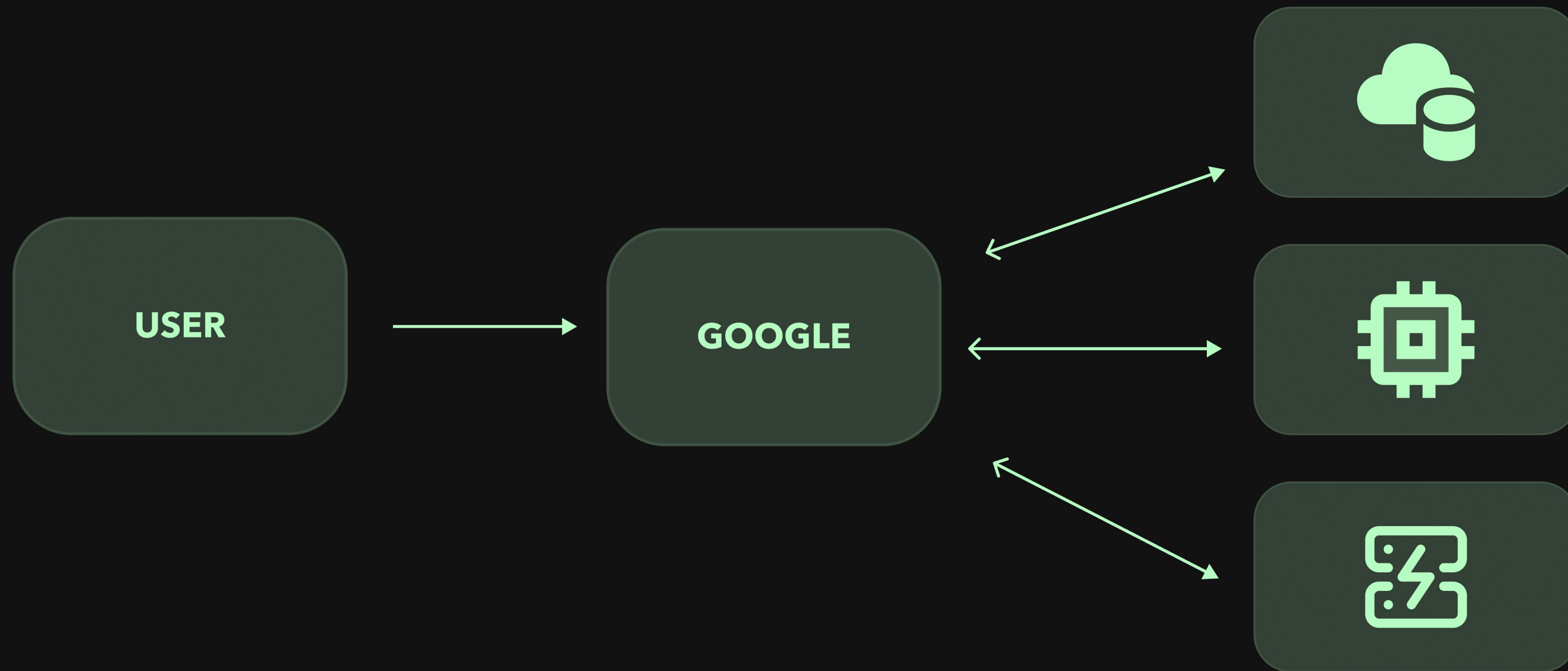
- COSMOS HUB
- COSMOS SDK
- IBC
- AKASH
- SOMMELIER
- NOBLE

**Strangelove is dedicated to  
building IBC and supporting  
its growth**

## WHAT ARE INTENTS?

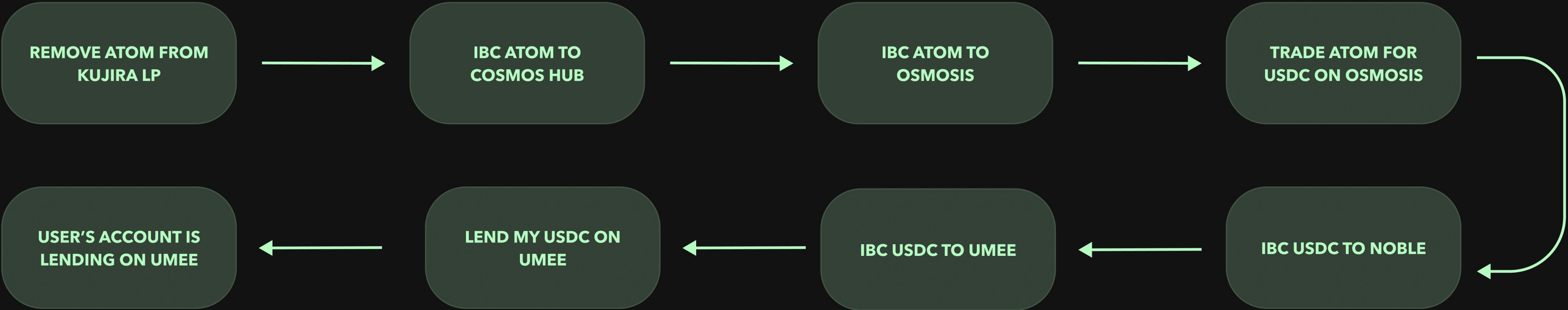
**A user specifies intent in a transaction on a single chain, and that intent is carried out across multiple different systems.**

# Intents Historical Example: Google



**IBC currently requires users  
to sign many transactions  
for a user intent.**

# Goal: Lend USDC on Umee with ATOM used to LP on Kujira



**Enter IBC Middleware**



# IBC Middleware

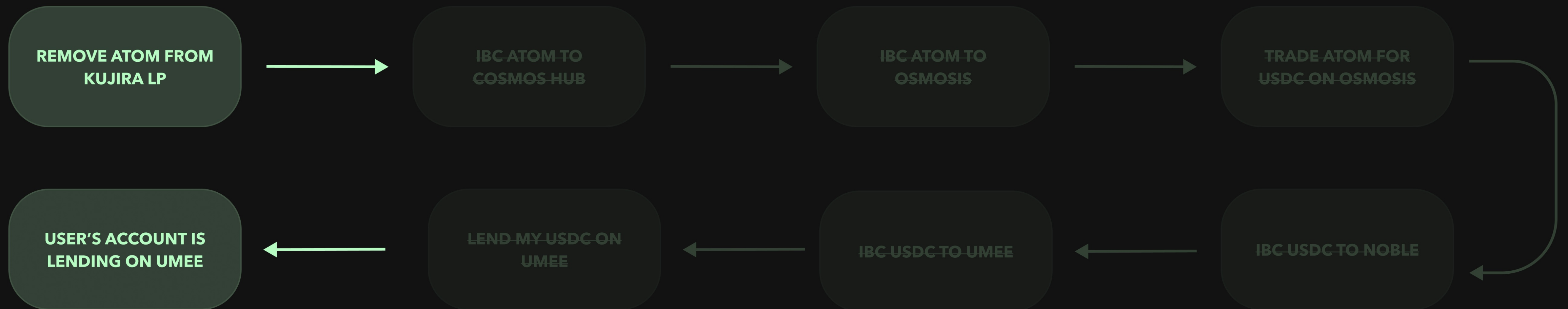
- Adds additional processing to IBC packets as they are sent and received.
- Simple JSON structure that allows user to specify actions, then any “next” actions.
- ICS20 added a “memo” field that allows for arbitrary data to be passed from the originating chain to other chains down the line.

# Middleware Calls

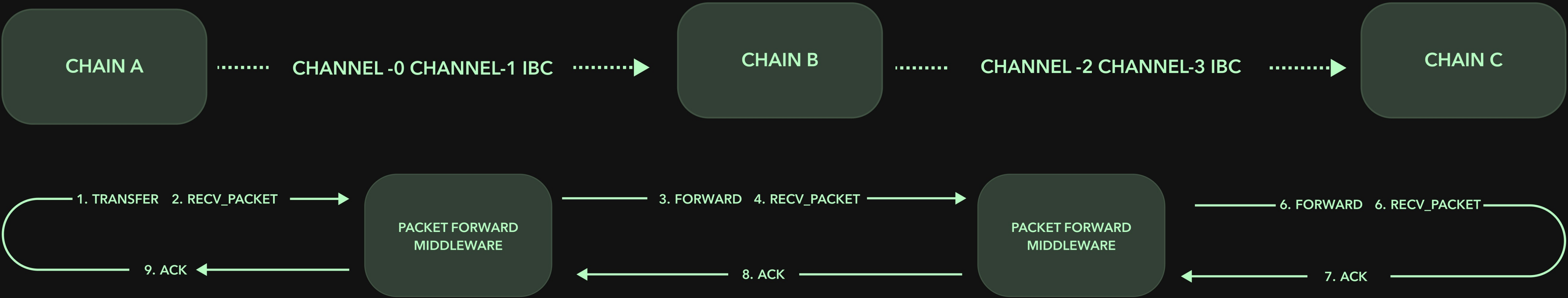
```
{
  "swap": {
    "creator": "test-1",
    "receiver": "test-1",
    "tokenA": "token-a",
    "tokenB": "token-b",
    "amountIn":
"123.00000000000000000000",
    "tokenIn": "token-in",
    "minOut":
"456.00000000000000000000",
    "non-refundable": false,
    "refund-address": "",
    "next": ""
  }
}
```

```
{
  "forward": {
    "receiver": "chain-c-bech32-address",
    "port": "transfer",
    "channel": "channel-123",
    "timeout": "10m",
    "retries": 2,
    "next": {
      "forward": {
        "receiver": "chain-d-bech32-
address",
        "port": "transfer",
        "channel": "channel-234",
        "timeout": "10m",
        "retries": 2
      }
    }
  }
}
```

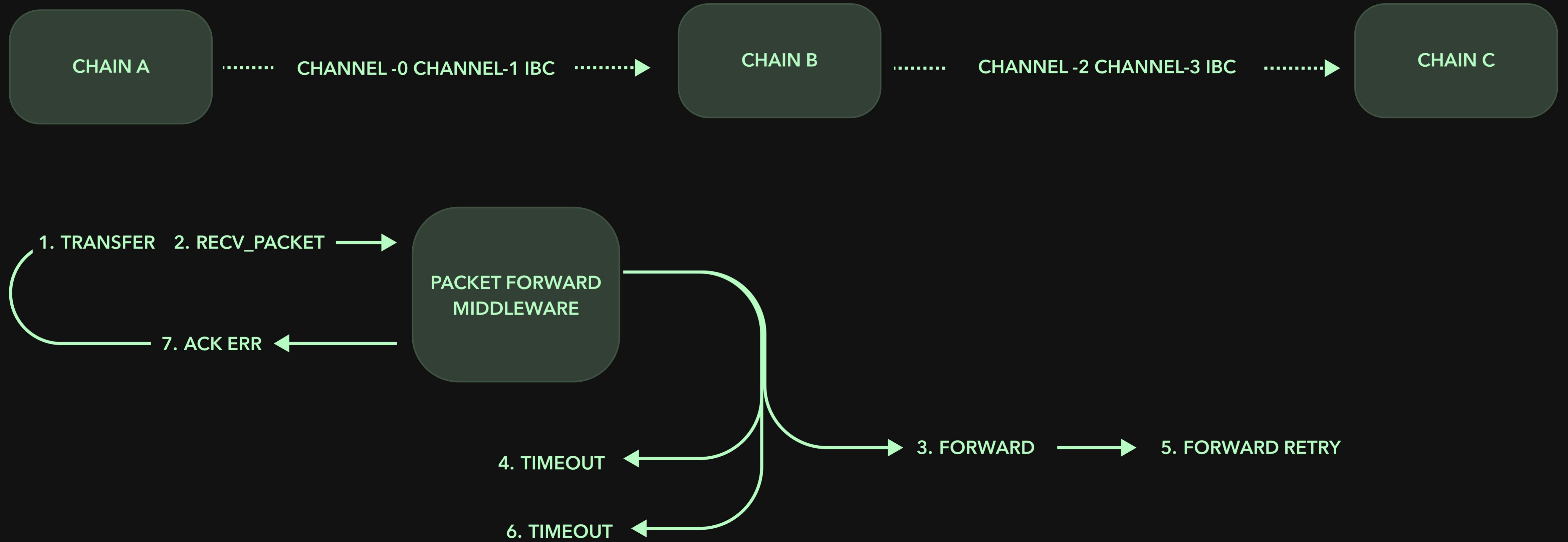
# IBC Middleware in Action



# Happy Path



# Sad Path



# Accounts vs Middleware

- Allow accounts to control accounts/smart contracts on other chains
- Interchain Accounts and Polytone are examples of this
- Quasar and Stride are leading the way in Accounts

# Whats Next

- **Middleware exposes an "Interchain API"**
- **Stride middleware is an example of this**
- **Staking Middleware, Lending Middleware, etc.**
- **Standardization and expansion of swap and forward**

# Thank You!



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www.strange.love