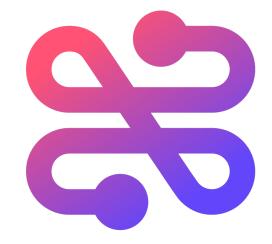
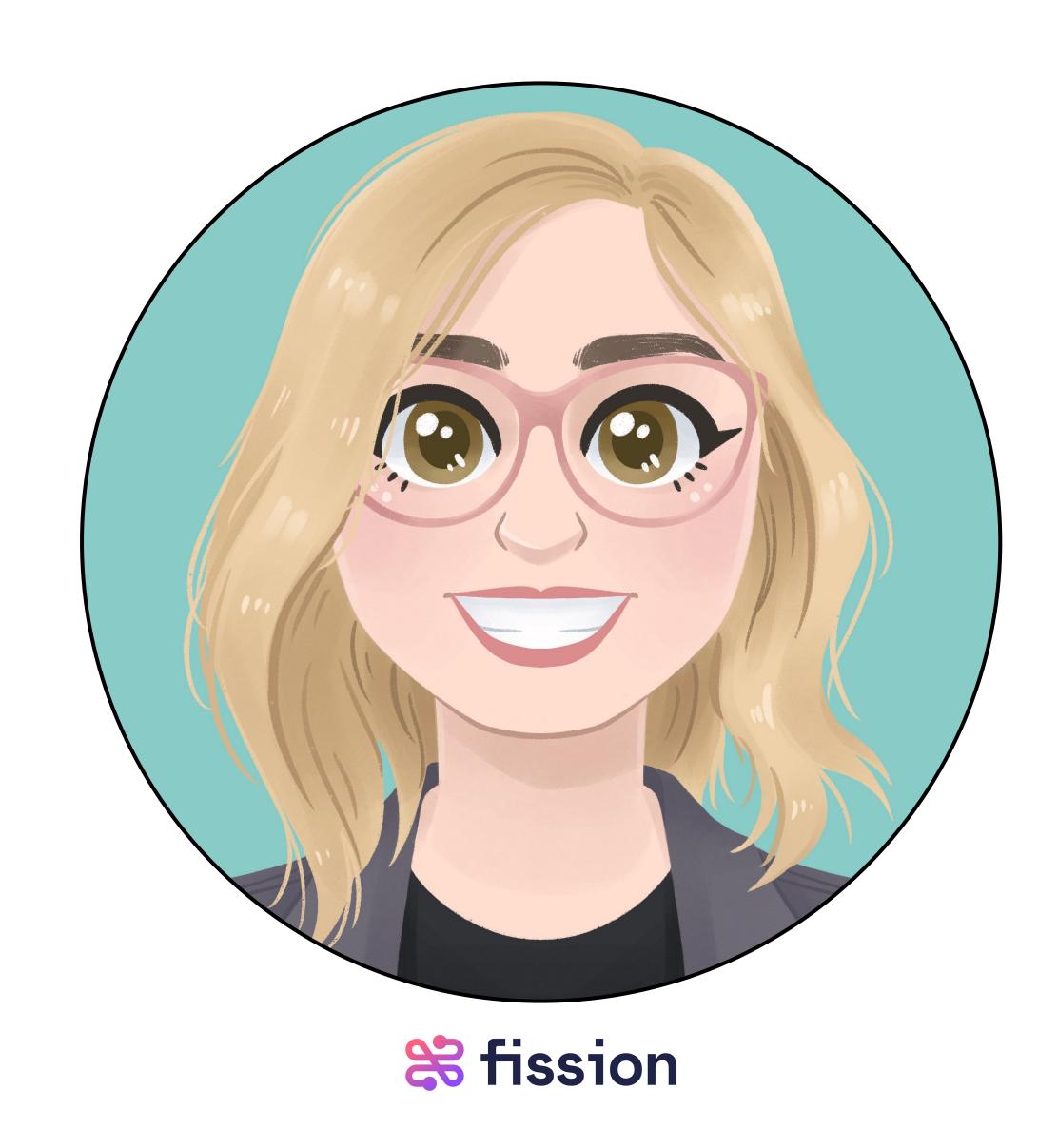
DECENTRALIZED WEB MEETUP



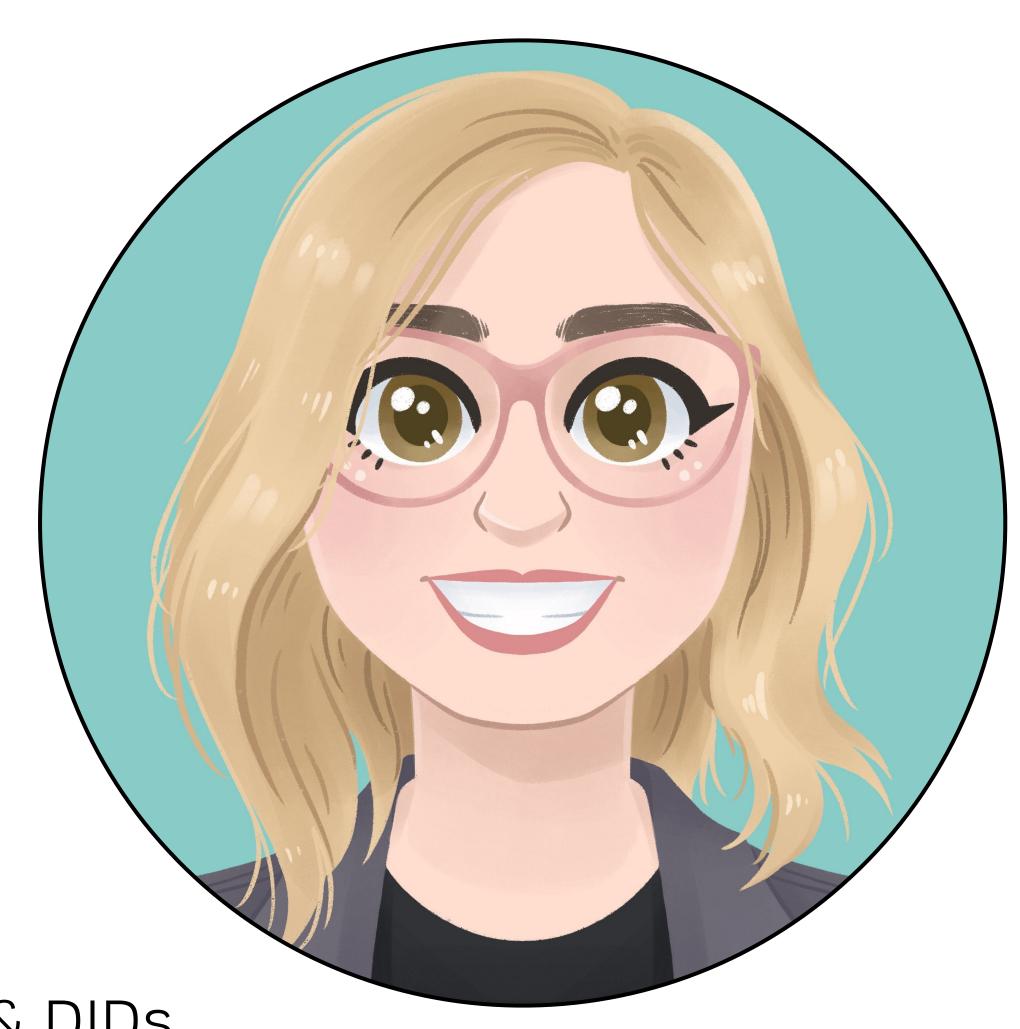
IPFS & FISSION LIVE

IPFS 101 & A BIT OF FISSION BROOKLYN ZELENKA, @expede



IPFS 101 & A BIT OF FISSION BROOKLYN ZELENKA, @expede

- Cofounder/CTO at Fission
 - https://fission.codes
- PLT & VMs
- Previously focused on Ethereum
 - EIPs 615, 902, 1066, 1444
 - ECIP 1050
- Currently spending a lot of time with IPFS & DIDs



fission

COMMONSINFRASTRUCTURE

COMMONSINFRASTRUCTURE

>> A SUBSTRATE FOR EVERYONE •>

COMMONS INFRASTRUCTURE OPEN SOURCE

Lots of people work on it, everybody benefits from it, and then people can build upon it (even in a revenue generating fashion)



TED LEUNG (2005)

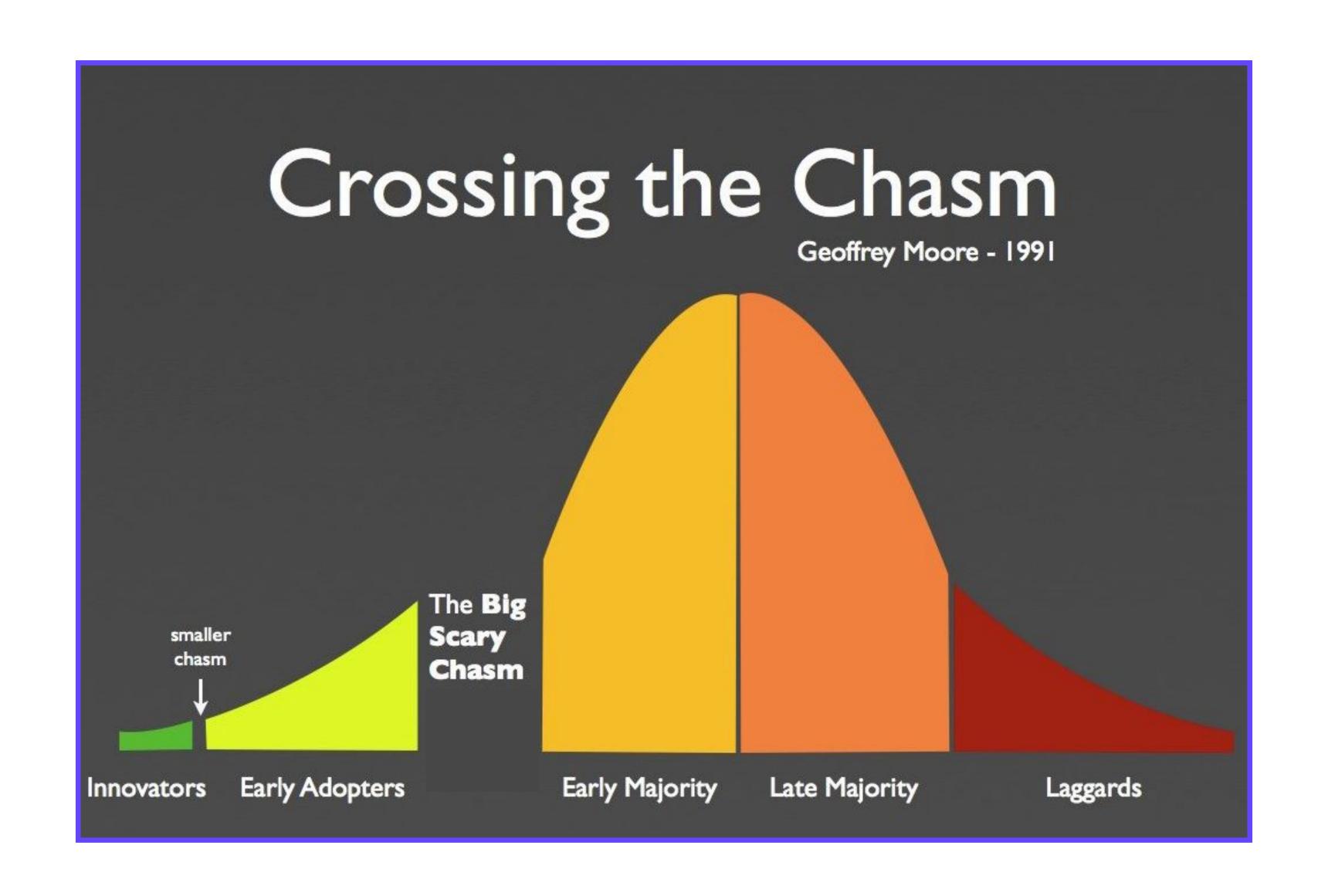
COMMONS INFRASTRUCTURE OPEN NETWORKS

Lots of people work on it, everybody benefits from it, people can build upon it (even in a revenue generating fashion), and it's "owned" by everyone.

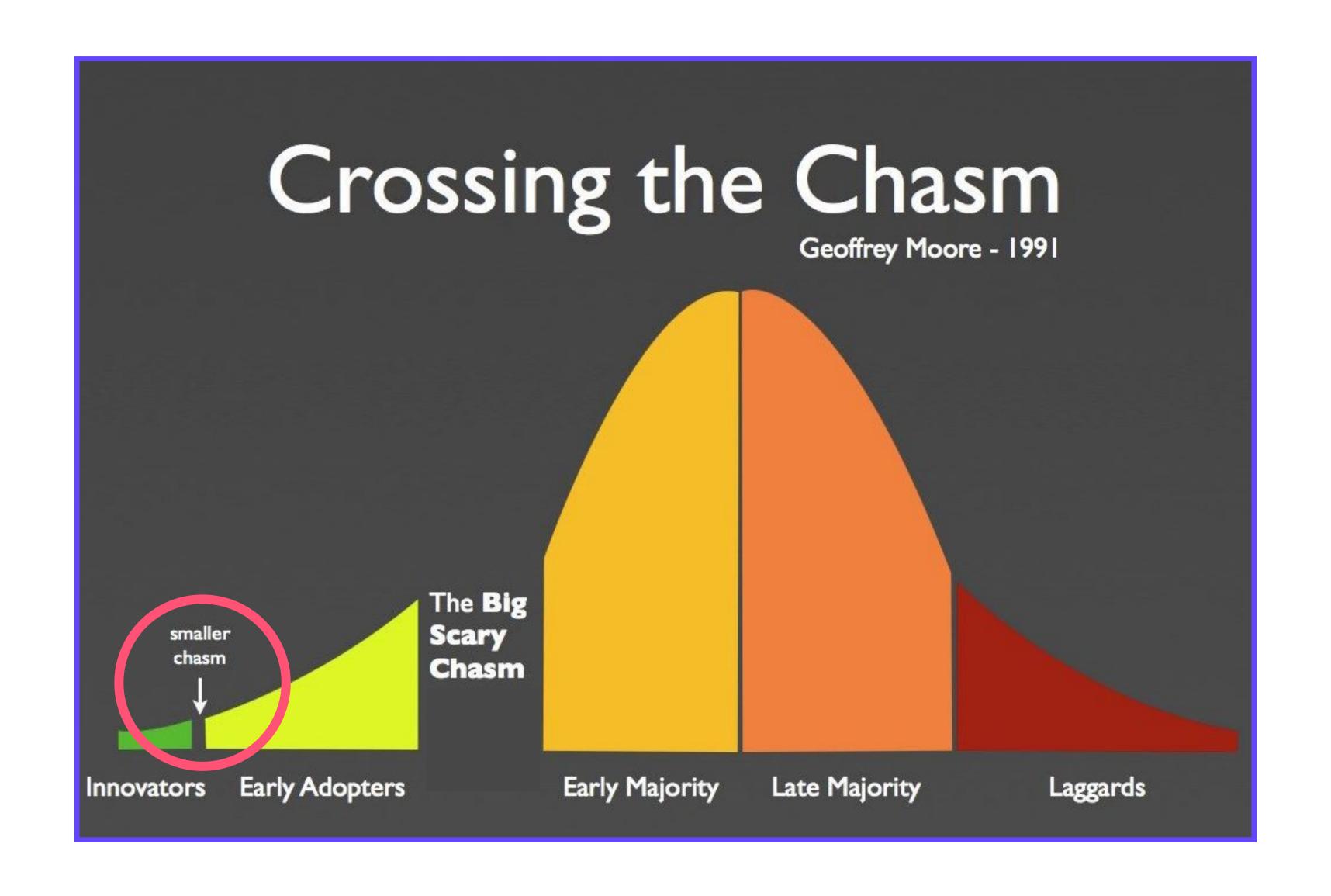
By participating — even with competitive goals — you are cooperating by serving the content and running compute of others.



COMMONS INFRASTRUCTURE WHY NOT MORE WIDESPREAD?



COMMONS INFRASTRUCTURE WHY NOT MORE WIDESPREAD?



DIDS

DIDS HIGHLY AUTHENTIC

DIDS STANDARDIZATION

DIDS STANDARDIZATION

- W3C
- Microsoft
- Government of British Columbia
- Based on public-key cryptography
- Truly "universal" UUIDs
- Agnostic about backing
- For users, devices, and more

FEBRUARY 12, 2018

Decentralized digital identities and blockchain: The future as we see it

By Alex Simons, Vice President of Program Management, Microsoft Identity Division

```
EXAMPLE 2: Minimal self-managed DID Document
  "@context": "https://w3id.org/did/v1",
  "id": "did:example:123456789abcdefghi",
  "publicKey": [{
    "id": "did:example:123456789abcdefghi#keys-1",
    "type": "RsaVerificationKey2018",
    "owner": "did:example:123456789abcdefghi",
    "publicKeyPem": "----BEGIN PUBLIC KEY...END PUBLIC KEY----\r\n"
  }],
  "authentication": [{
    // this key can be used to authenticate as DID ...9938
    "type": "RsaSignatureAuthentication2018",
    "publicKey": "did:example:123456789abcdefghi#keys-1"
  "service": [{
    "type": "ExampleService",
    "serviceEndpoint": "https://example.com/endpoint/8377464"
```

DIDS CLAIMS

DIDS CLAIMS

- Principle of least information
- "Can attest that this user is over 18"
- All claims signed with private key
- Age, credentials, country residency, job history, event attendance, ...

DIDS

WHAT ABOUT TRACKING, PRIVACY, RECOVERY

DIDS WHAT ABOUT TRACKING, PRIVACY, RECOVERY

Hierarchical deterministic wallets

DIDS What about tracking, privacy, recovery

- Hierarchical deterministic wallets
- Keychains
 - Generally on a blockchain
 - Some cases on DNS

DIDS

SELF-SOVEREIGN IDENTITY (SSI)

DIDS SELF-SOVEREIGN IDENTITY (SSI)

Generate your own ID!

DIDS SELF-SOVEREIGN IDENTITY (SSI)

- Generate your own ID!
- As many as you like

DIDS SELF-SOVEREIGN IDENTITY (SSI)

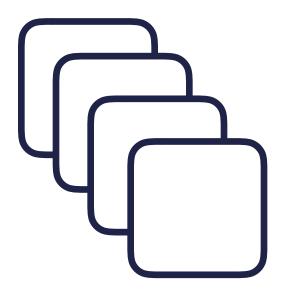
- Generate your own ID!
- As many as you like
- Generally use commons infrastructure like a blockchain or DNS

WHAT FISSION IS UP TO

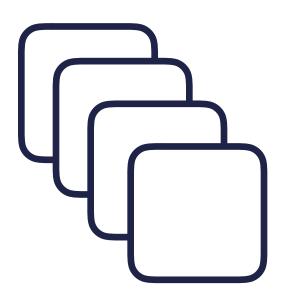
WHAT FISSION IS UP TO

MAKING LIFE EASIER FOR ALL DEVS >>

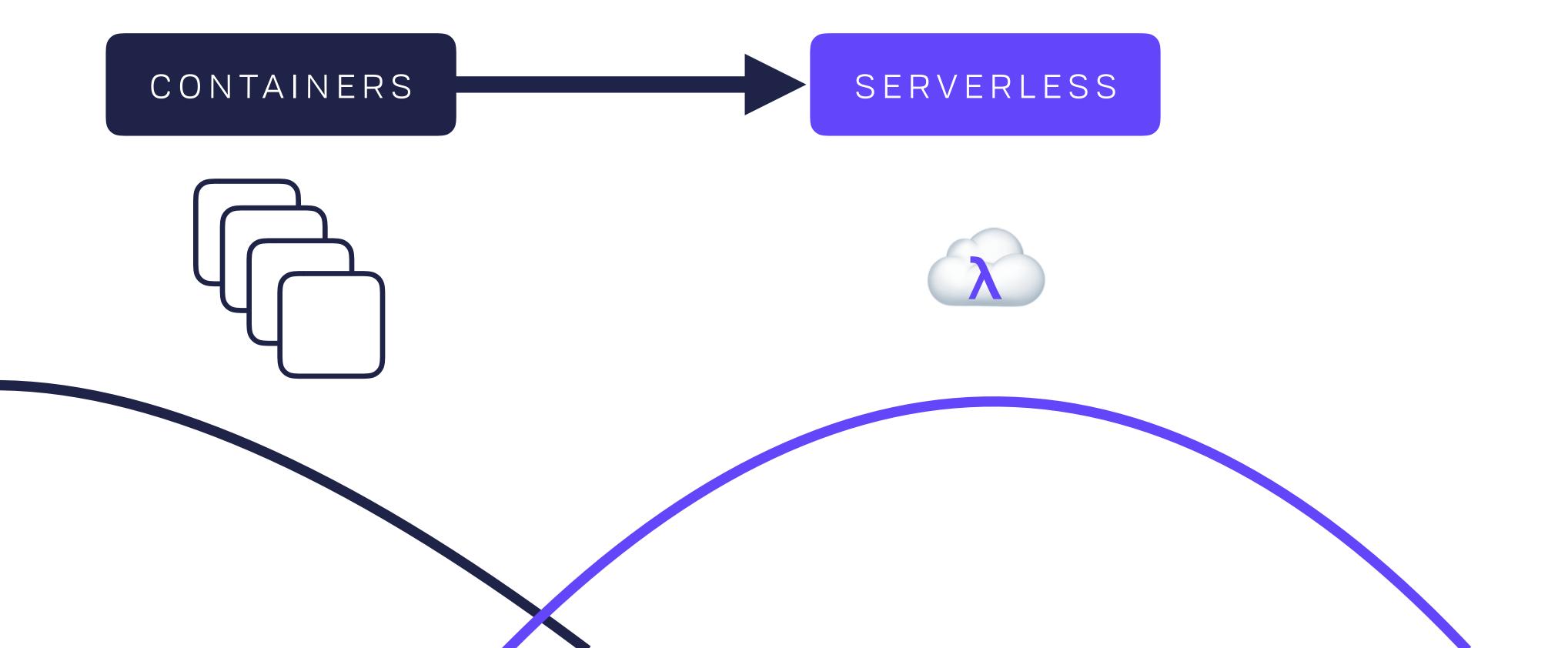
CONTAINERS

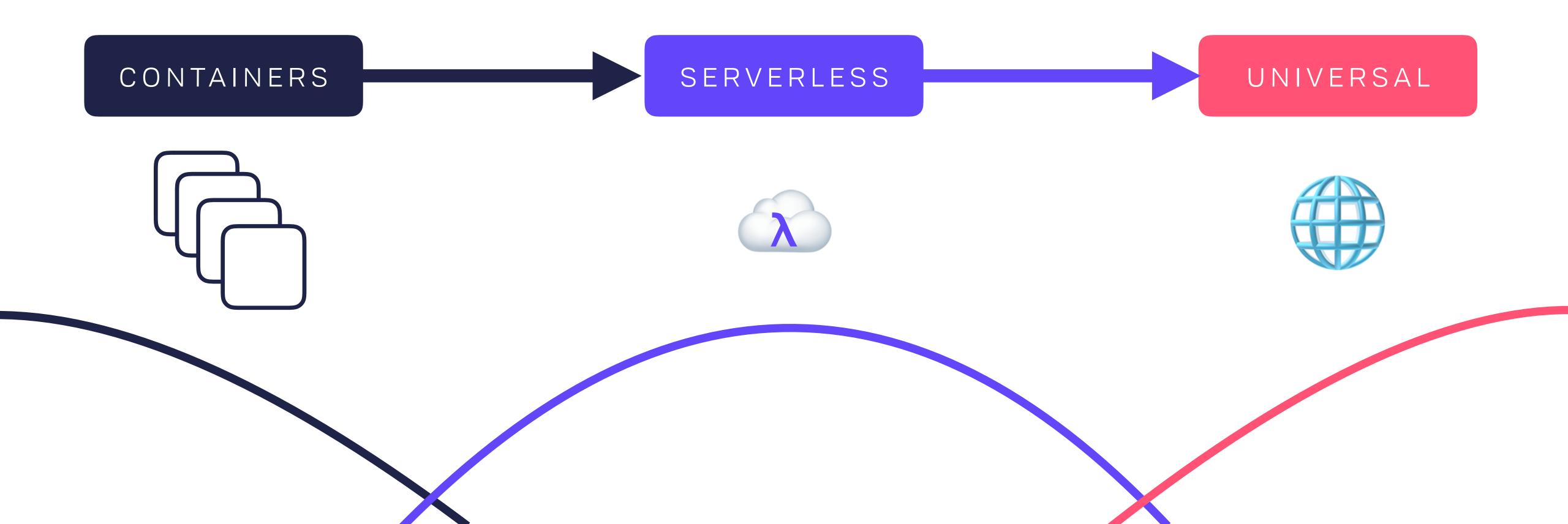


CONTAINERS











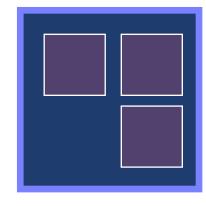






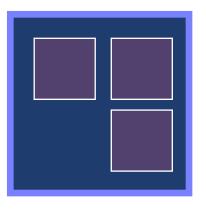


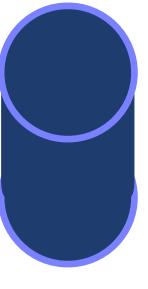


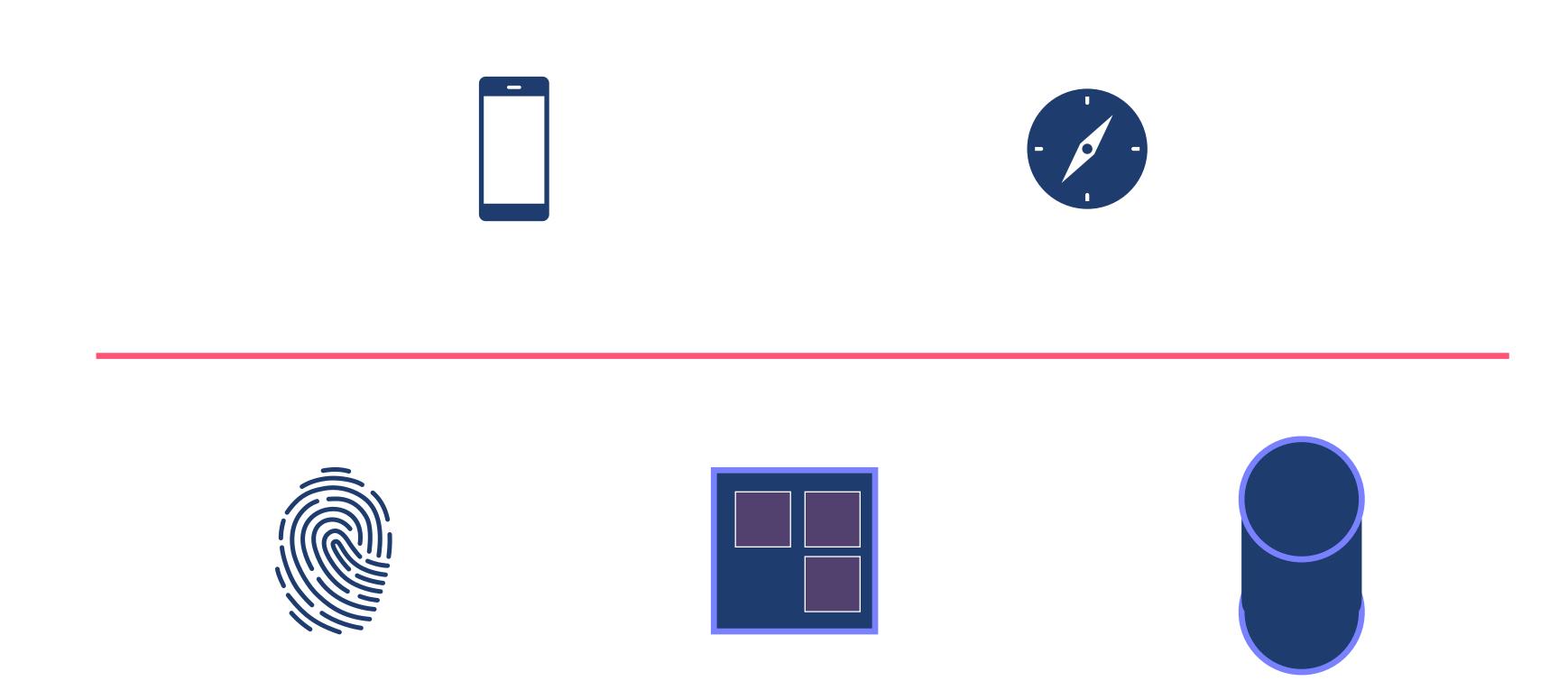




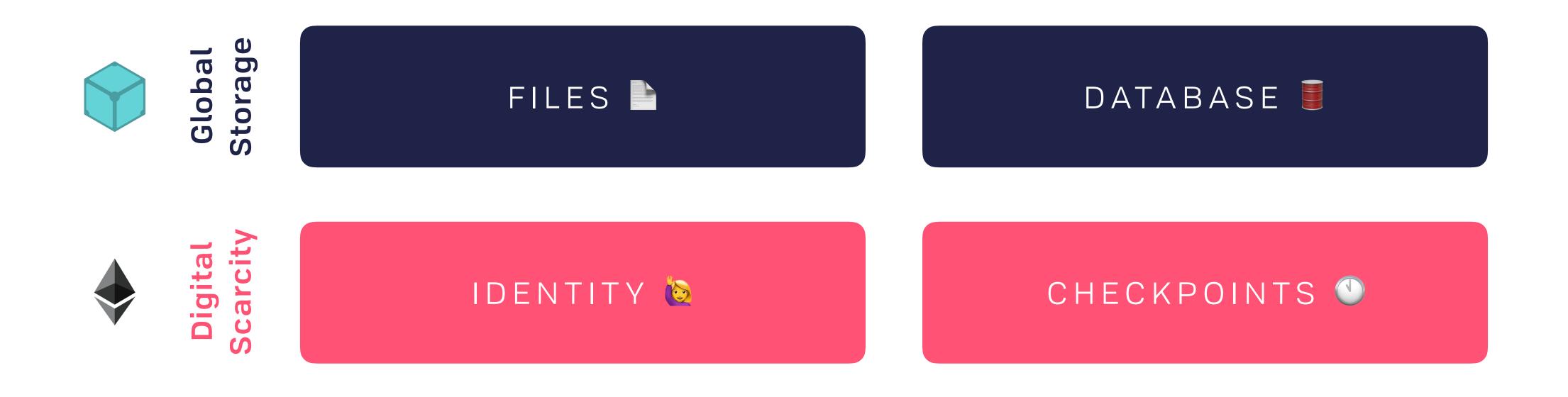


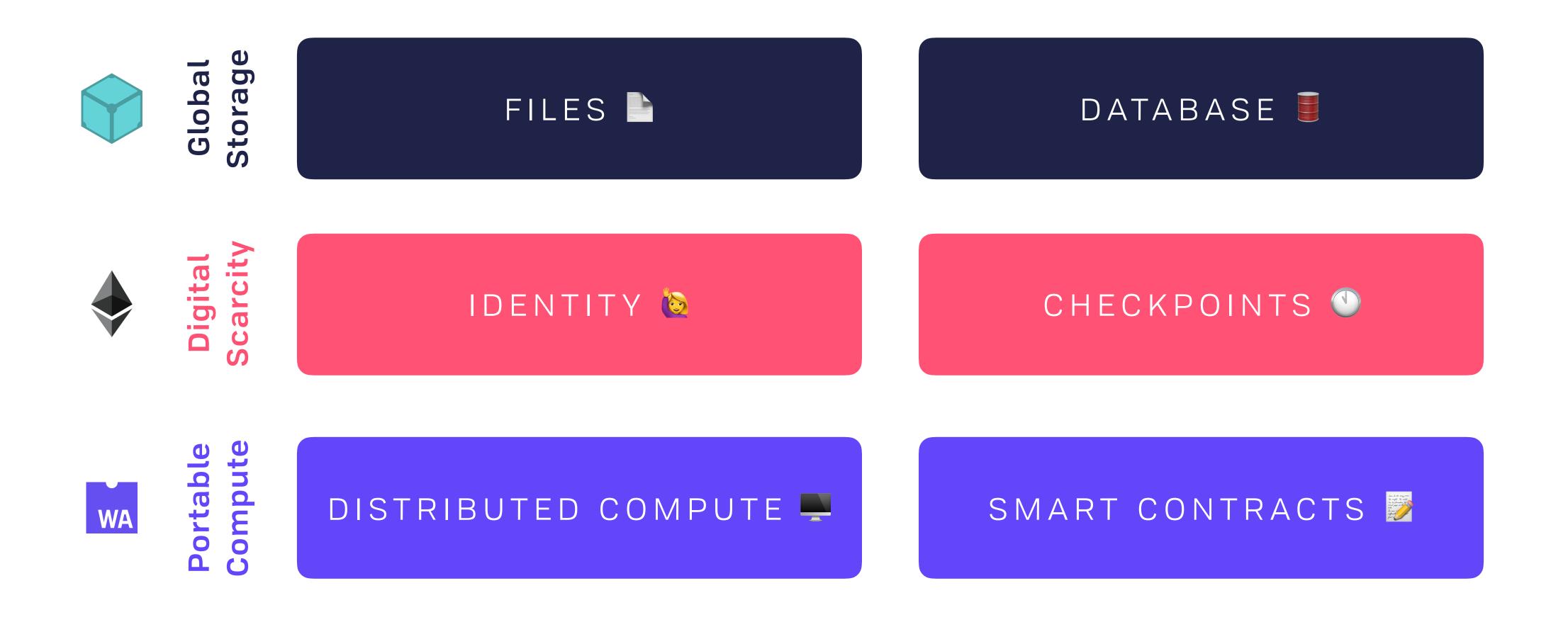




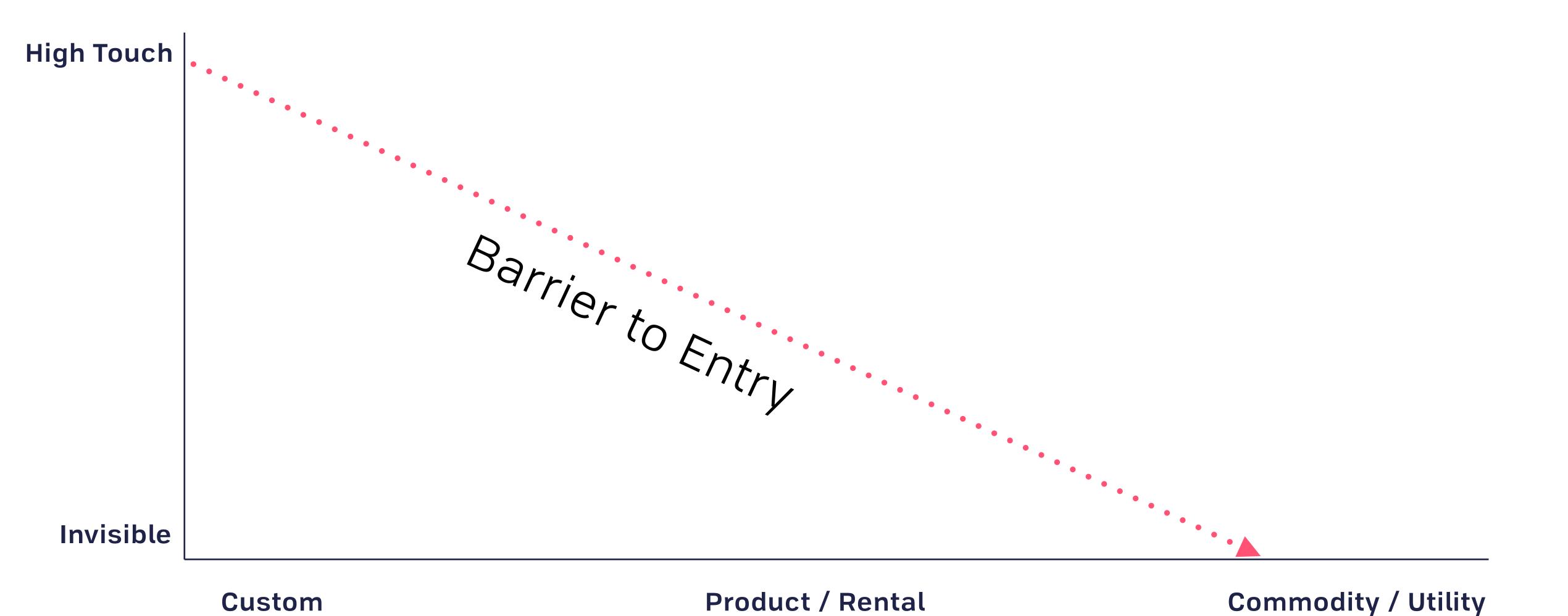


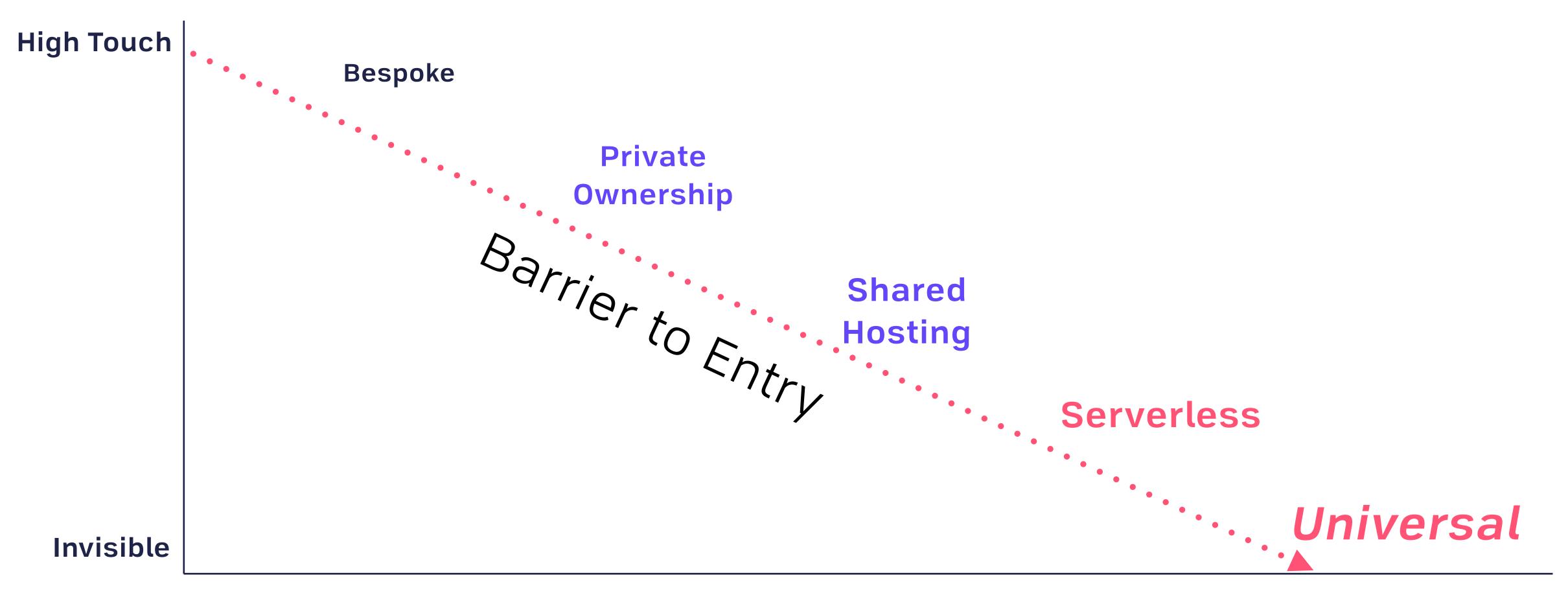












A SIMPLE DEMO

A SIMPLE DEMO

■ DECENTRALIZED WEB IN 30 SECONDS OR LESS — NO STEP 2 🖋

QUICK DEMO MACOS INSTALL

brew tap fission-suite/fission brew install fission-cli

QUICK DEMO

HOW TO USE

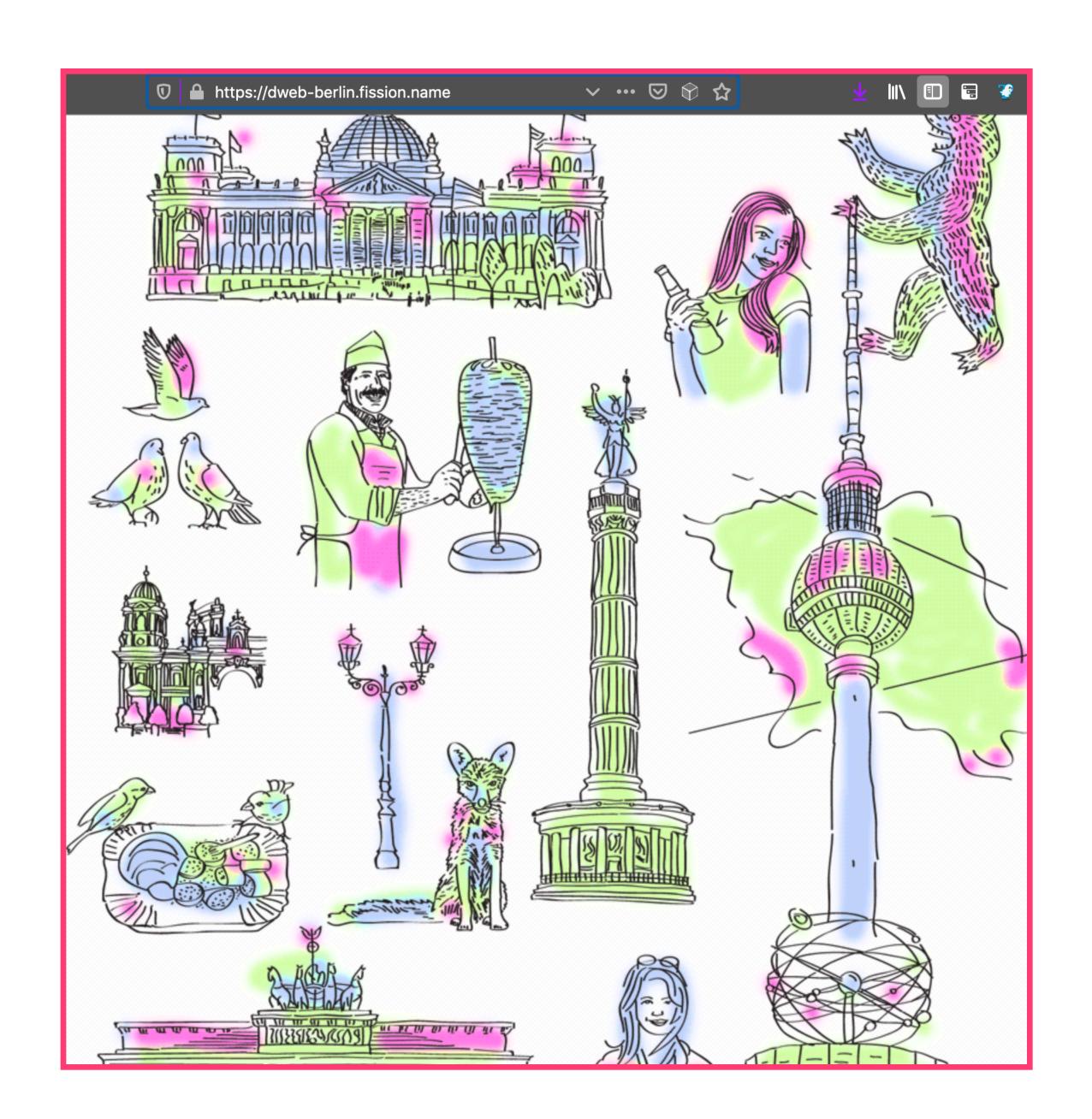


QUICK DEMO

HOW TO USE



QUICK DEMO NO STEP 2



https://fission.codes https://talk.fission.codes https://tools.fission.codes



BEDANKT, AMSTERDAM



brooklyn@fission.codes github.com/expede @ expede