EthCC 6 - Building with purpose, building for all

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Agenda

- User-friendly gas currencies (viem, feeCurrency)
- User-friendly account discovery (SocialConnect)

Part 1: Alternative gas currencies

Crypto-native UX

Before:

- 1. User wants to acquire NFT for \$10
- 2. User onboards with fiat (e.g. credit card) and expects to pay \$10
- 3. User gets 10 USD stablecoin
- 4. User expects to transfers 10 USD stablecoin for NFT but must pay gas in native token
- 5. User must acquire native token to pay gas (swap, exchange, buy extra token to pay gas)
- 6. User transfers \$10, pays gas in native token and is left with dust in native token

User-friendly UX

After:

- 1. User wants to acquire NFT for \$10
- 2. User onboards with fiat (e.g. credit card) and expects to pay \$10
- 3. User gets 10 USD stablecoin
- 4. User transfers 10 USD stablecoin for NFT and pays gas in stablecoin
- 5. User transfers \$10, pays gas in stablecoin and is left with no dust

How?

- feeCurrency transaction field on Celo blockchain
- viem SDK
- cUSD (\$), cREAL (R\$), or cEUR (€) fee currencies on Celo

Example

```
import 'viem' from "viem"
import { celo } from "viem/chains"
import { stableTokenABI } from "@celo/abis"
```

```
const transaction = {
   from: account.address,
   to,
   value: parseEther(value),
   feeCurrency: FEE_CURRENCIES["cusd"],
}
```

```
const FEE_CURRENCIES = {
  cusd: "0x874069Fa1Eb16D44d622F2e0Ca25eeA172369bC1",
  creal: "0xE4D517785D091D3c54818832dB6094bcc2744545",
  ceur: "0x10c892A6EC43a53E45D0B916B4b7D383B1b78C0F",
}
```

Demo

Run yarn demo to make demo transaction.

Notes-to-self (REMOVE BEFORE TALK):

- Show sender balance before
- Make transaction (using script)
- Show sender balance after
- Open celoscan or celo explorer to see transaction

Part 2: SocialConnect