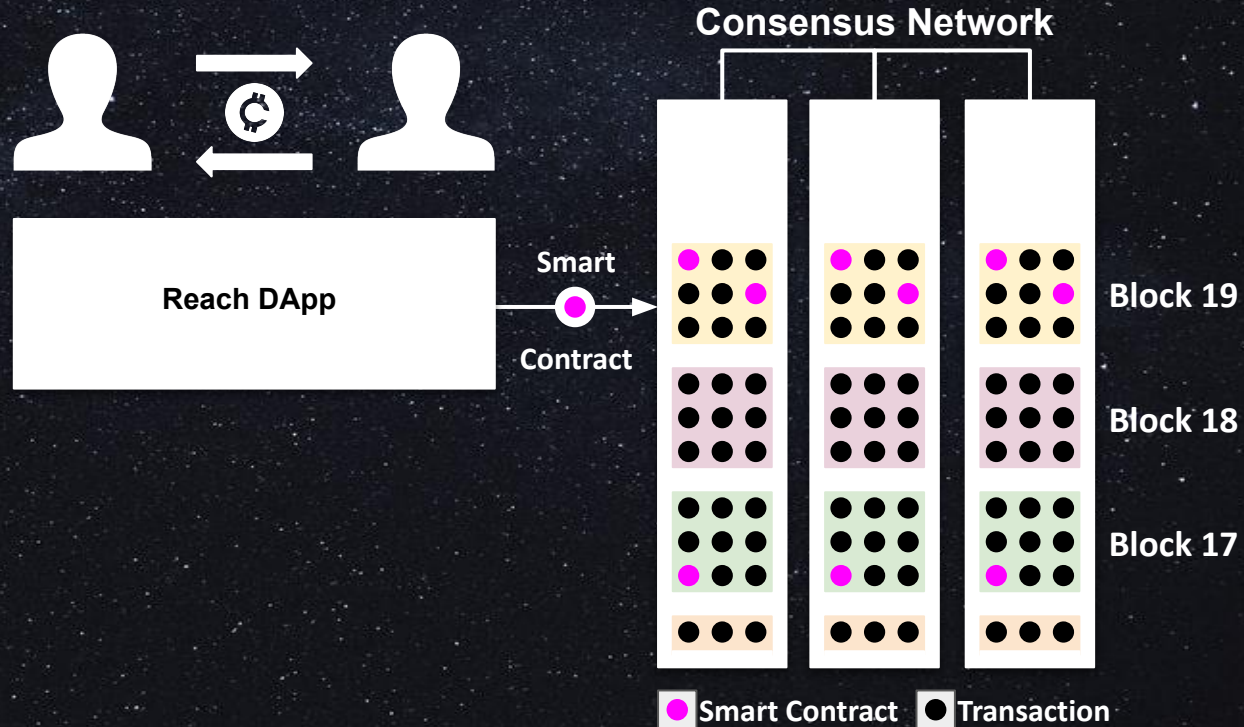




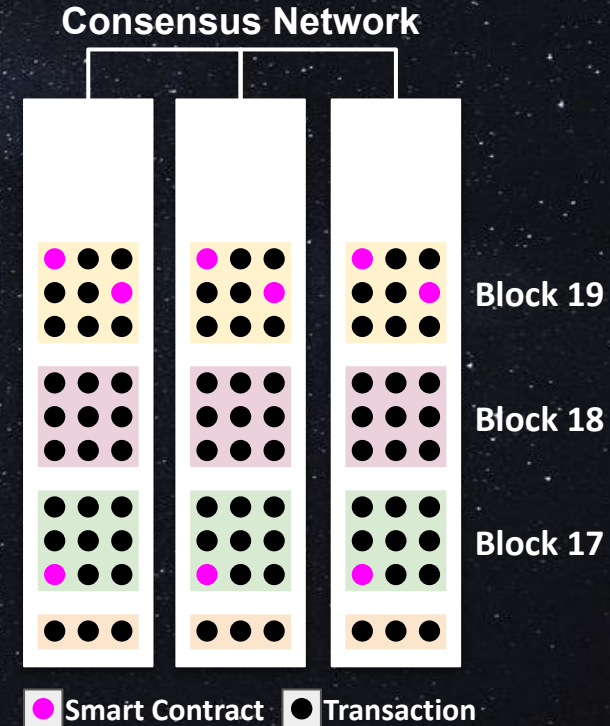
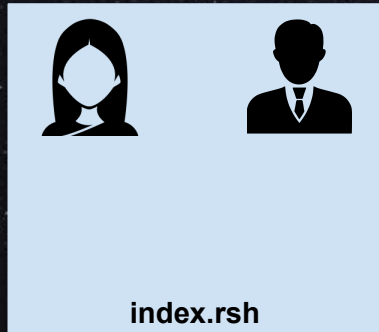
# Develop and Deploy Overview

October 14, 2021

Reach DApps create smart contracts that enable participants to interact on consensus networks.

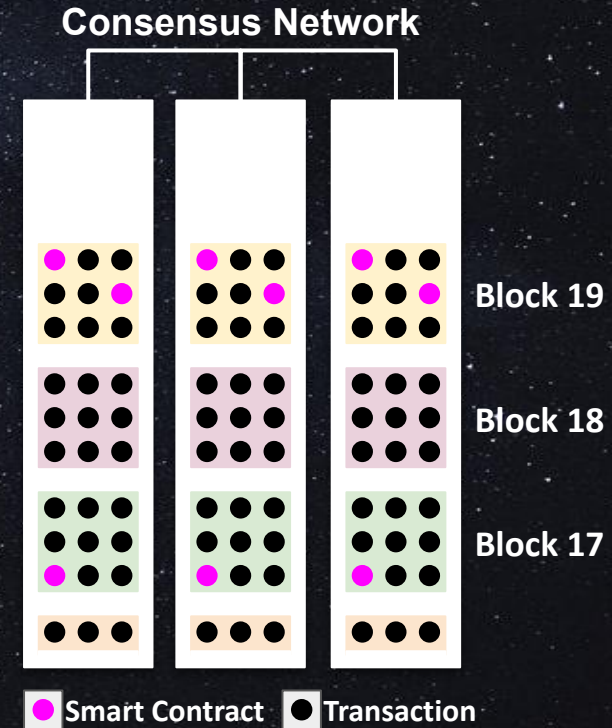
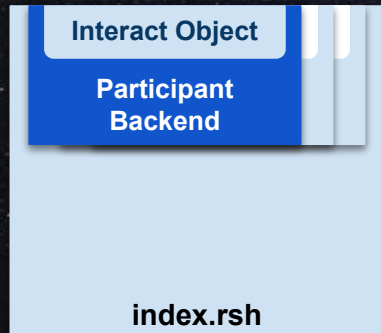


The developer starts by defining participants and their interactions in index.rsh using the Reach programming language.

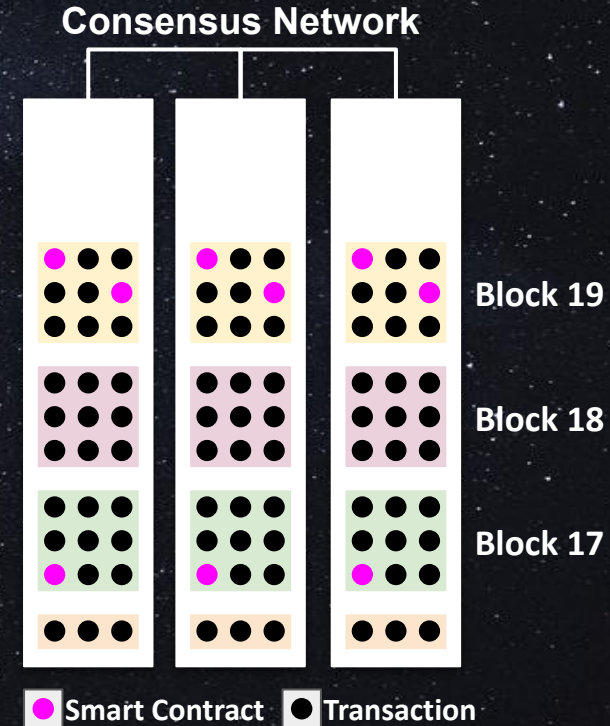
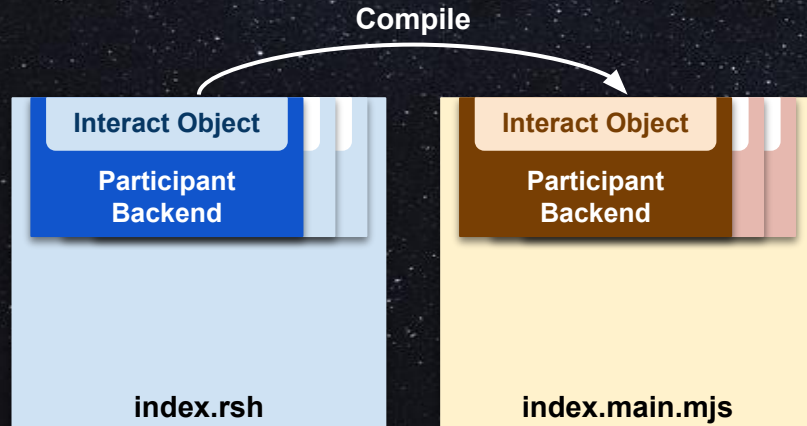




Interact objects comprise the interface.

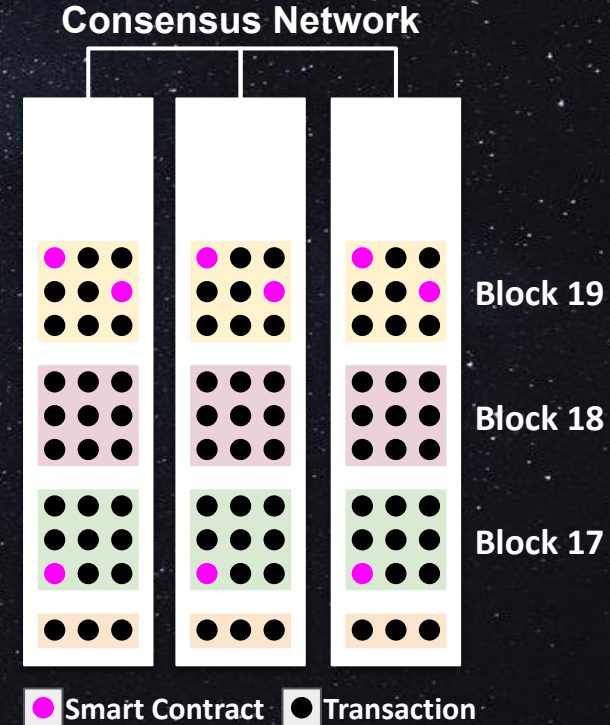
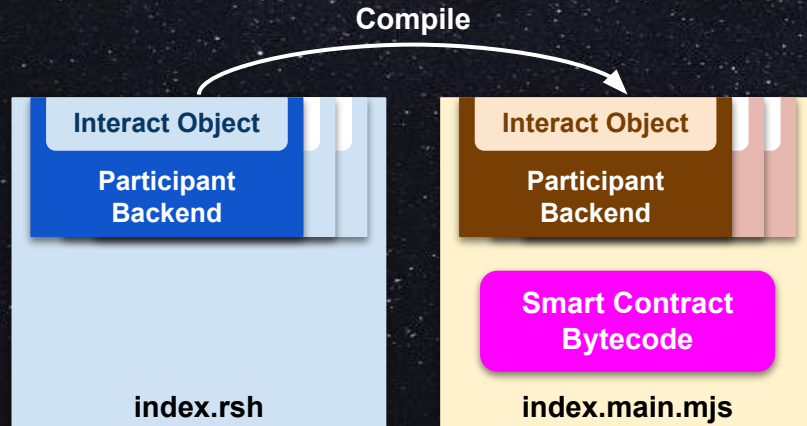


The developer compiles index.rsh to produce index.main.mjs (JavaScript).

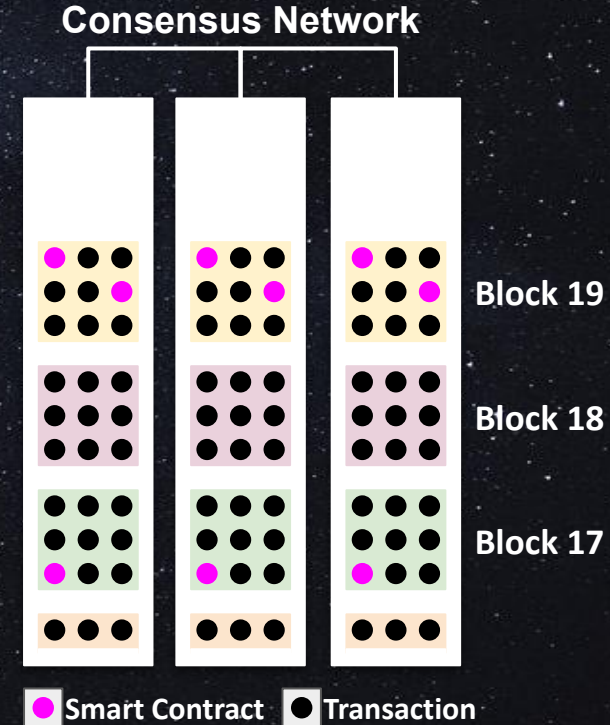
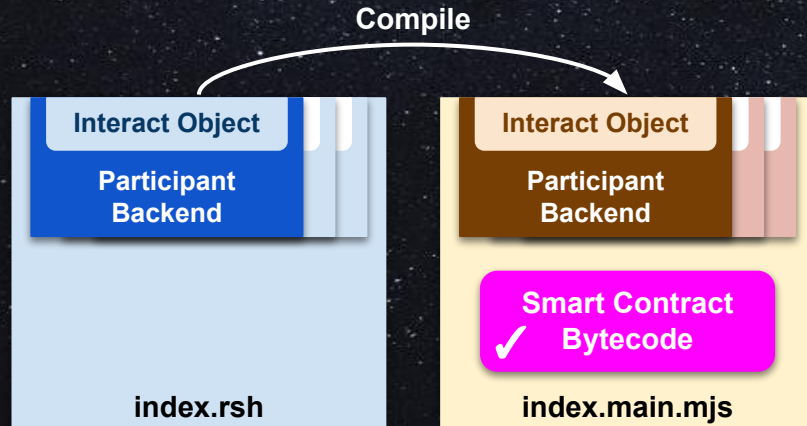




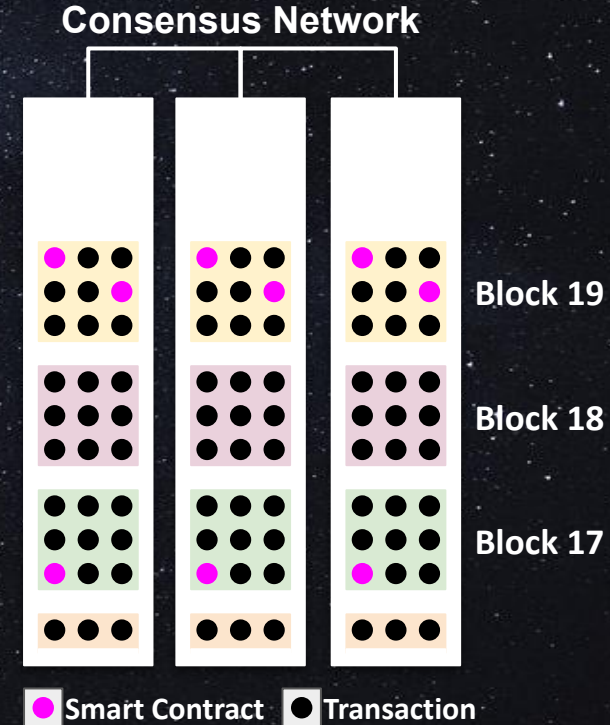
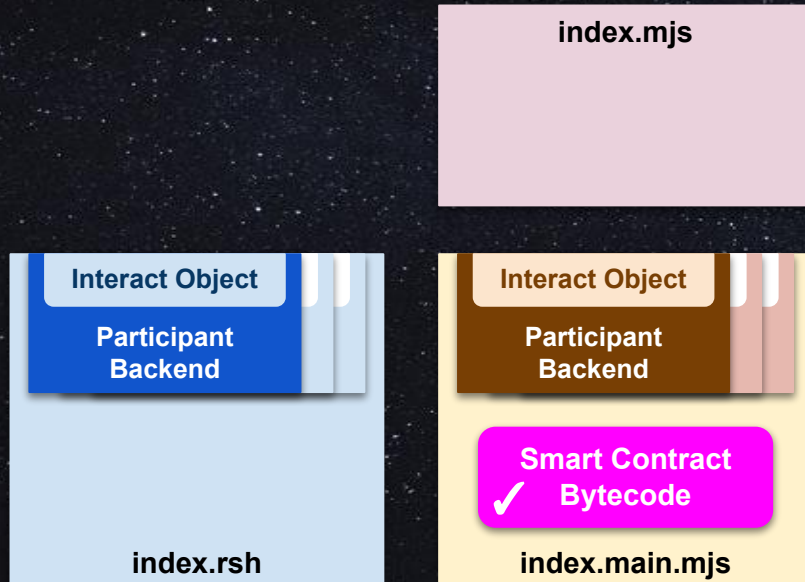
This file includes (1) the compiled backend (interact objects) and (2) the smart contract bytecode specific to the target consensus network.



The verification engine runs at compile time to validate the smart contract.

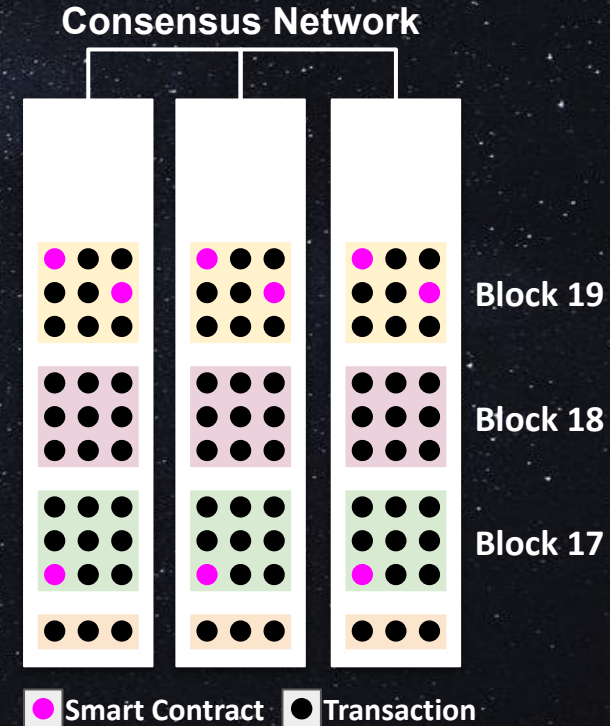
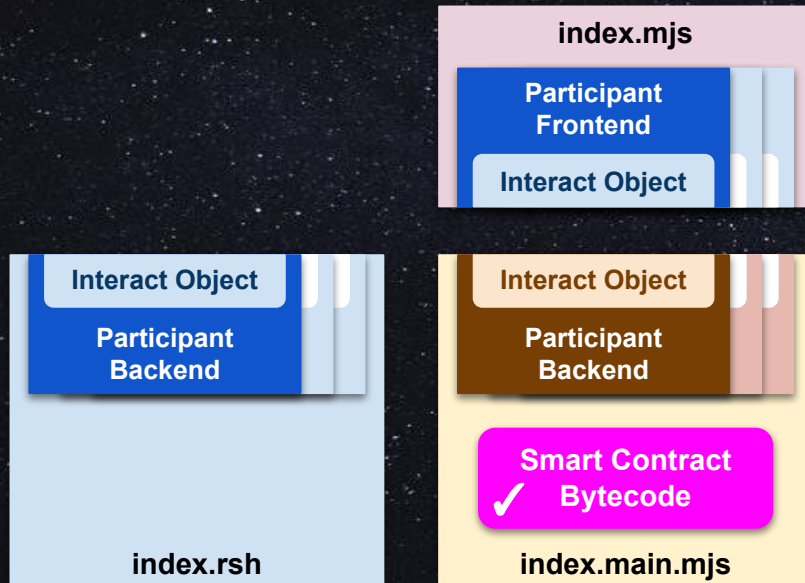


The developer creates a frontend for the Reach DApp.

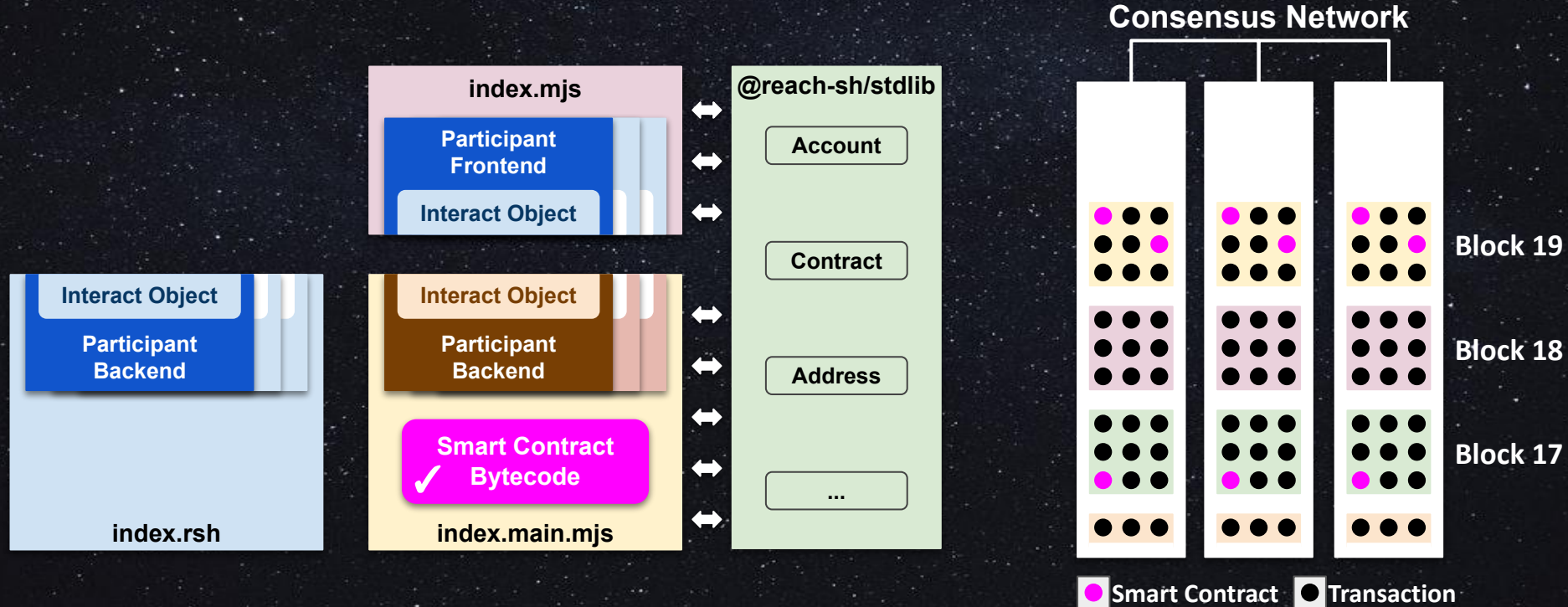




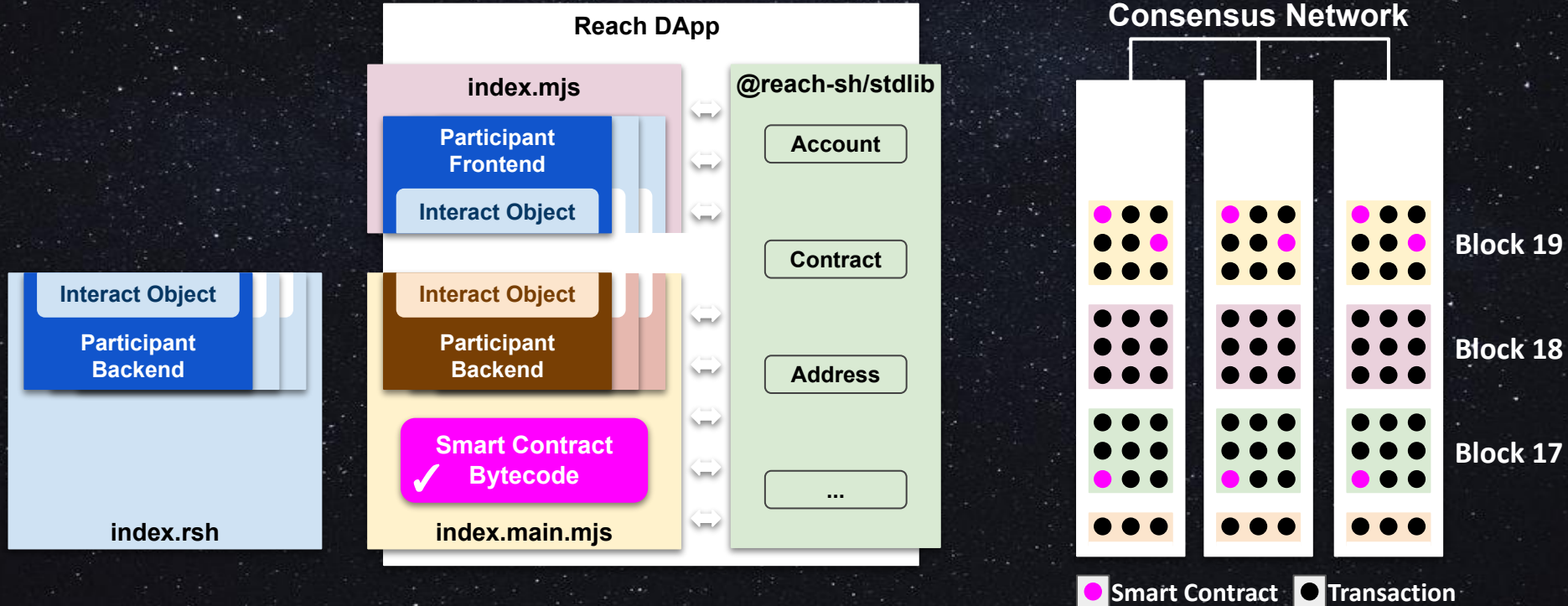
The frontend includes interact objects that mirror those on the backend.



The Reach JS Standard Library provides support to frontends & backends.

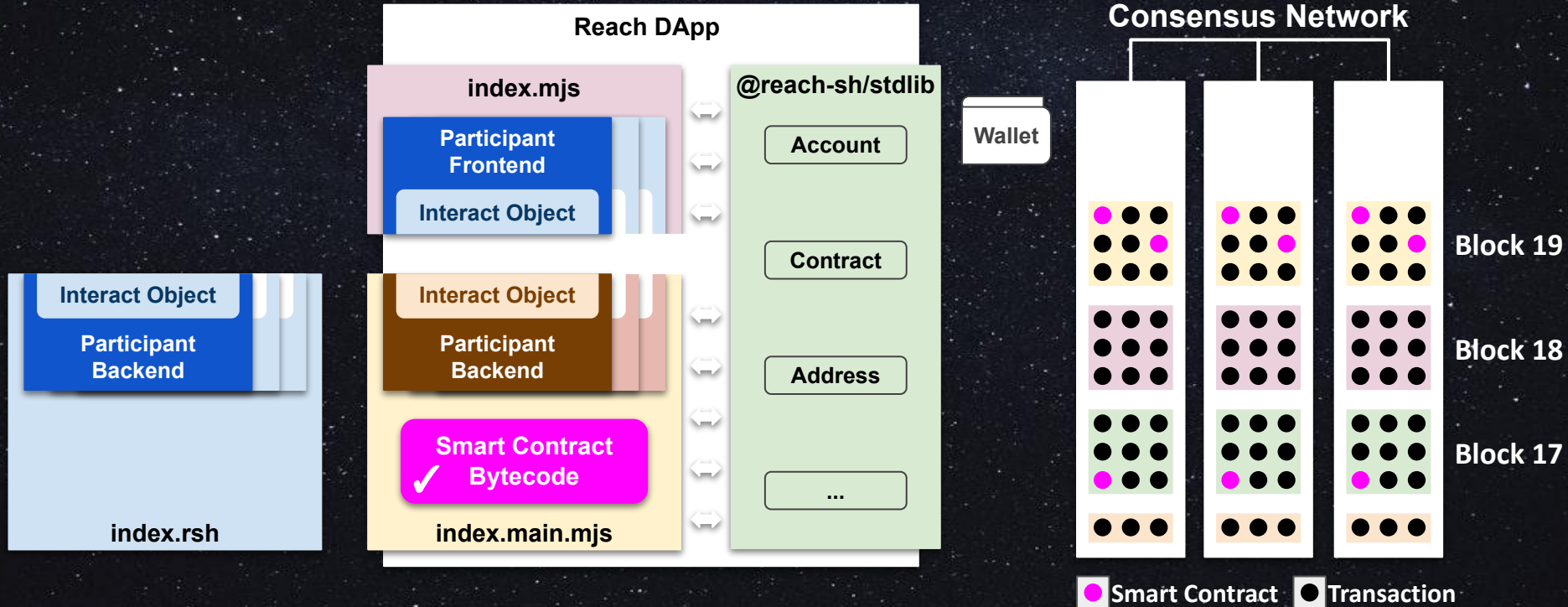


A Reach DApp includes the frontend, backend, and library.

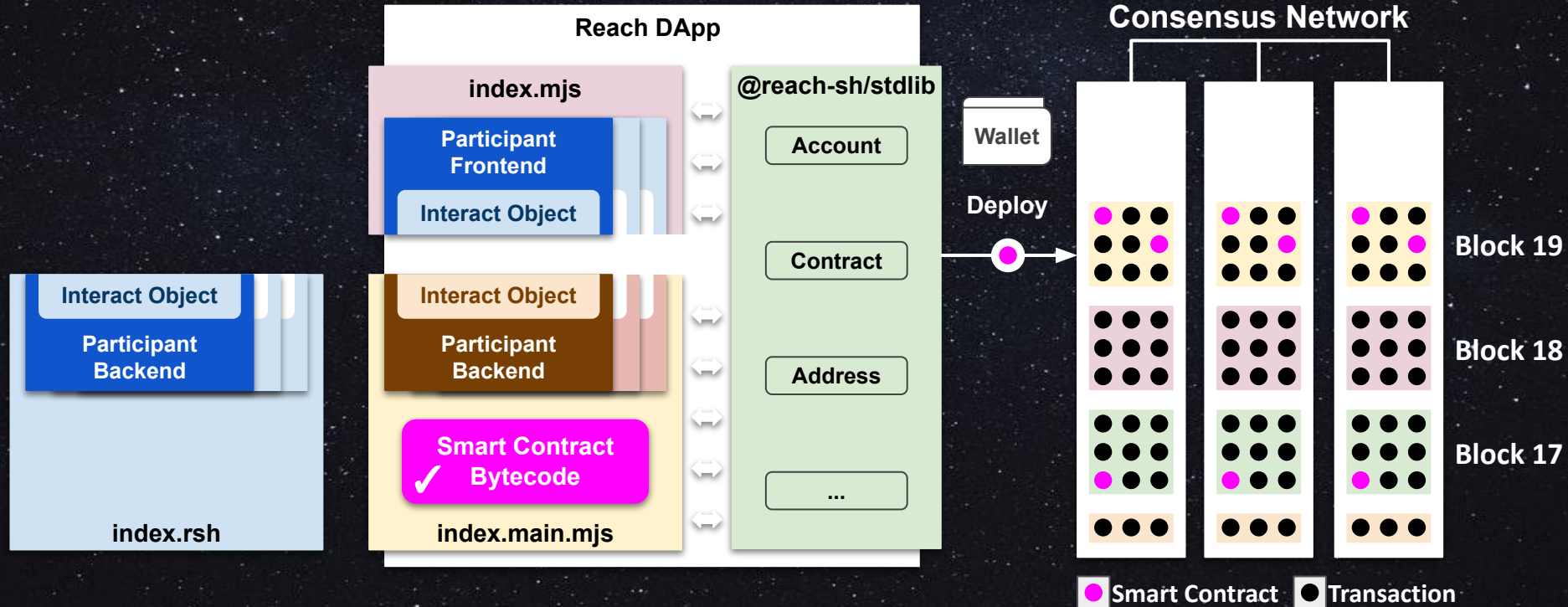




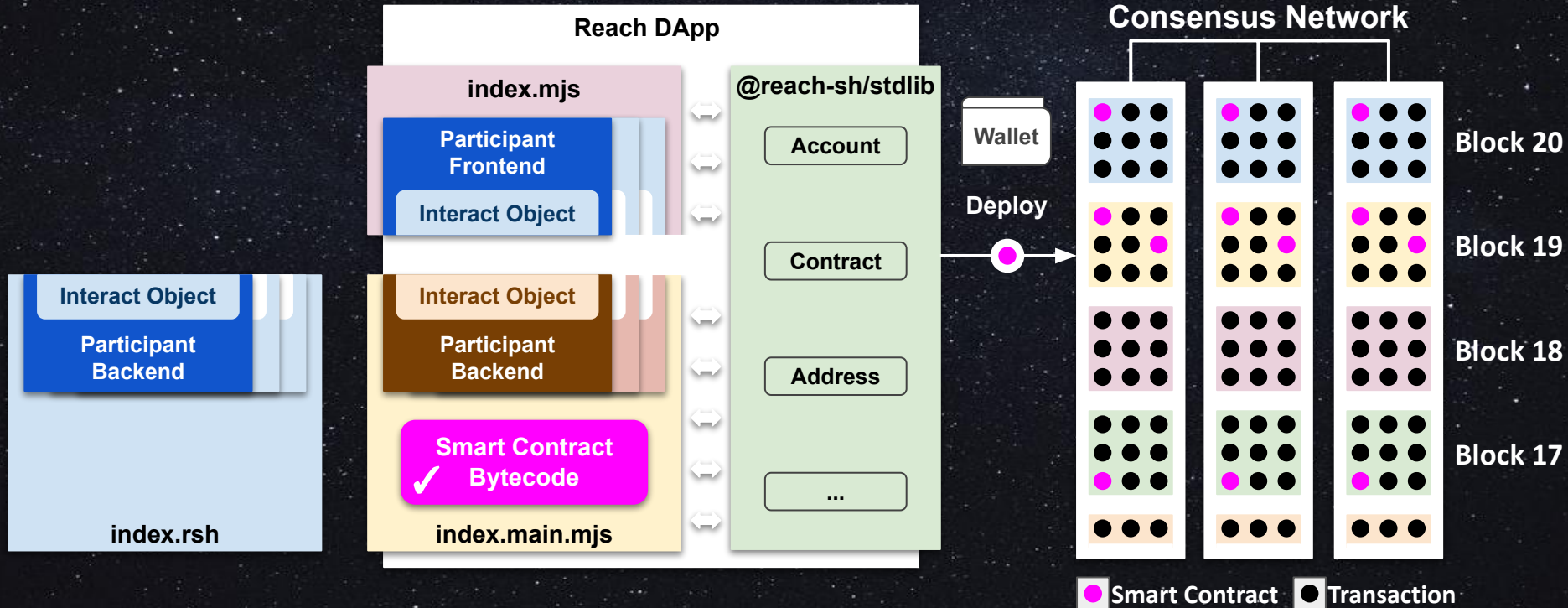
A DApp needs an account (wallet) to access the consensus network.



The DApp deploys the smart contract.

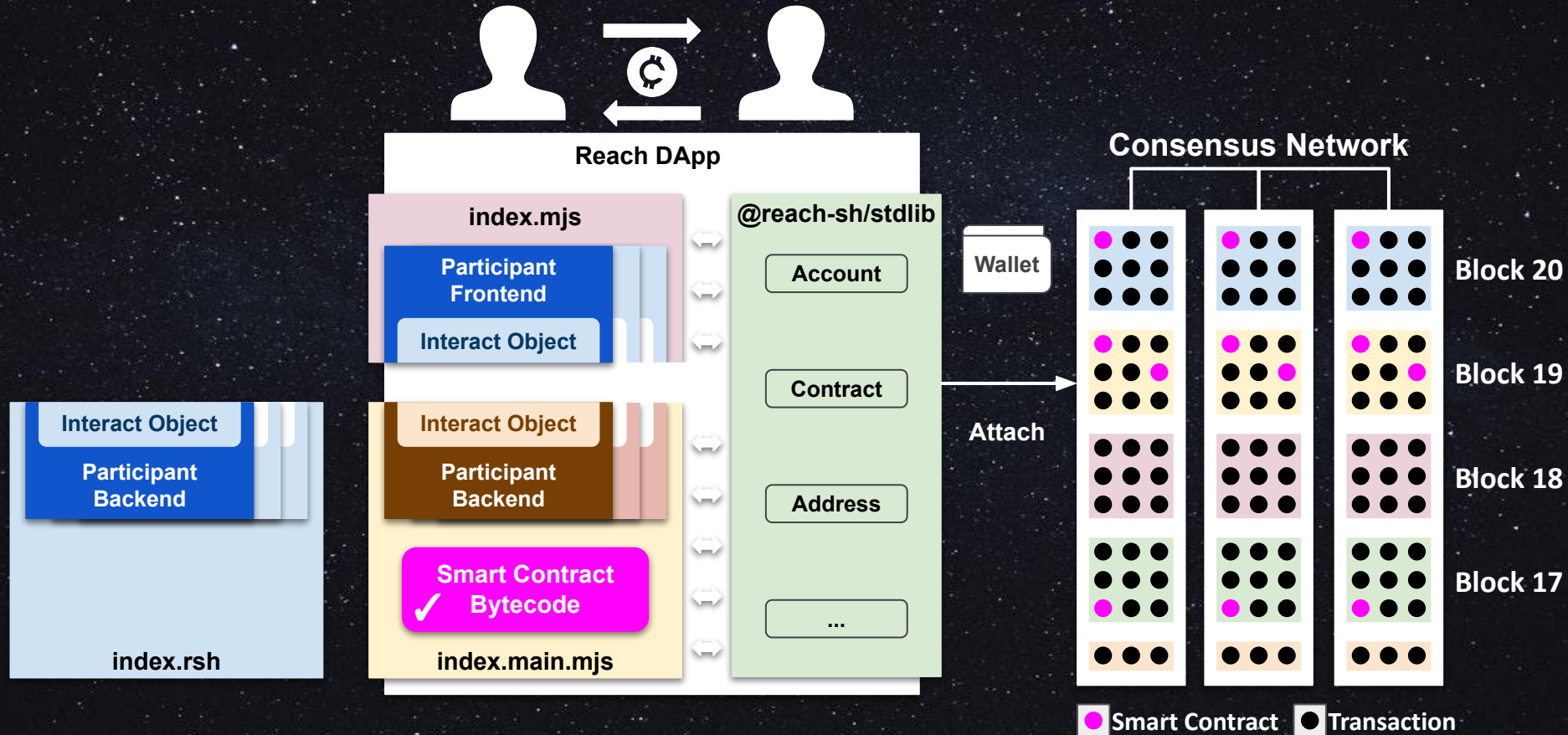


The network includes the smart contract in a new block.





Participants attach to, and interact via, the smart contract.



SSS

