

# EVM behavior

## EVM behavioral specification

- [Notes on the EVM](#)
- : straightforward technical specification of the EVM plus some behavioral examples
- [EVM: From Solidity to bytecode, memory and storage](#)
- : a 90-minute talk from Peter Robinson and David Hyland-Wood
- [EVM illustrated](#)
- : an excellent set of diagrams for confirming your mental model
- [EVM Deep Dives: The Path to Shadowy Super-Coder](#)
- 

## Opcode reference

[evm.codes](#) : opcode reference (including gas costs) and an interactive sandbox for stepping through bytecode execution

## Solidity storage layout

The EVM allows smart contracts to store data in 32-byte words ("storage slots"), however the details of how complex datastructures such as lists or mappings is left as an implementation detail to the higher-level language. Solidity has a specific way of assigning variables to storage slots, described below:

- [Official docs on storage layout](#)
- [Storage patterns in Solidity](#)
- 

[Previous Suggested Resources](#) [Next Further Solidity resources](#) Last updated 5 months ago

On this page \* [EVM behavioral specification](#) \* [Opcode reference](#) \* [Solidity storage layout](#)