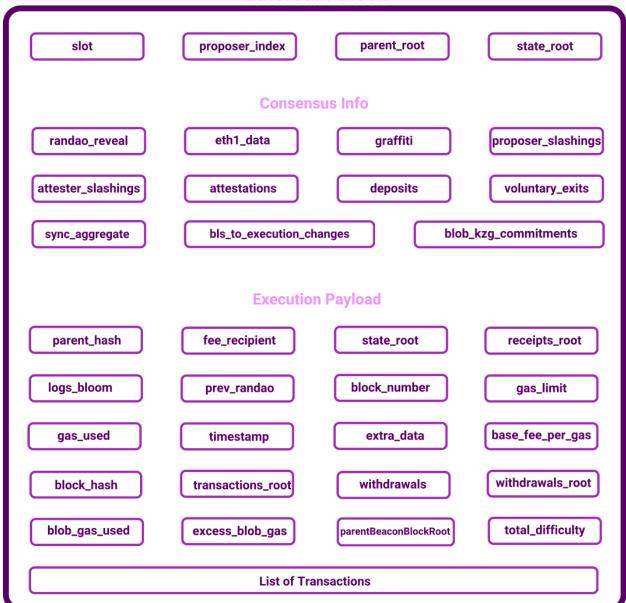
Ethereum Block



Fields in a block

- **slot**: the timeslot number the block belongs to
- **proposer_index**: the ID of the validator proposing the block
- parent_root: the hash of the preceding block
- **state_root**: identifier of the entire state of the system.

Consensus Information part consists of fields related to the Proof of Stake algorithm.

- randao_reveal: Block proposer's sign on current epoch. A value used to randomly select the next block proposer.
- eth1_data: Status of the deposit contract
- graffiti: Arbitrary data used by validator to tag blocks
- Proposer_slashings & attester_slashings: List of validators to be slashed
- attestations: List of votes in favour of the current block
- deposits: List of new deposits to the deposit contract
- voluntary_exits: List of validators exiting the network
- **sync_aggregate**: Subset of validators used to serve light clients (devices which have low resources)
- **bls_to_execution_changes**: Number of validators that have changed their stake withdrawal credentials from BLS format to execution address format.
- **blob_kzg_commitments**: Cryptographic commitment of data stored in blob.

The execution_payload section will consist of transactions passed from the execution client (EVM).

- parent hash: hash of the parent (previous) block
- **fee_recipient:** validator which receives the transaction fees
- **state_root**: Keccak-256 hash of root node of the state trie generated after applying changes in this block.
- receipts_root: Keccak-256 hash of root node of the receipts trie, created over the receipts of all transactions included in this block.
- logs_bloom: data structure containing indexed log entries from transactions receipts
- **prev_randao:** value used in random validator selection. This field replaced an earlier field **mixHash**, related to PoW.
- **block_number**: the number of the current block
- gas limit: current maximum gas allowed for current block
- gas_used: the actual amount of gas used by transactions in current block
- timestamp: the time when the block was created
- extra data: arbitrary additional data as raw bytes
- base_fee_per_gas: the minimum fee per gas required for a transaction to be included in a block.
- **block_hash:** Hash of execution payload block
- **transactions_root:** The Keccak-256 root hash of root node of transactions trie, created over all the transactions included in the block
- withdrawals: list of validator withdrawals
- withdrawals_root: root hash of validator withdrawal data.
- **blob_gas_used** and **excess_blob_gas** fields have gas usages about blob storage in the consensus layer.
- parentBeaconBlockRoot: hash of the parent beacon block for the given execution block.

- **total_difficulty**: A field which represents the cumulative difficulty till the current block. This was relevant suring PoW stage of Ethereum.
- **transaction list:** list of transactions batched together in the block.

Several previous fields like **ommers**, **ommersHash**, **difficulty**, **mixHash**, **nonce**, etc are now deprecated and either contain default or a constant value.