

## Substrate4builders – Developer-focused tutorials and tools

| <b>Titles</b>  | <b>Focus Areas</b>                           | <b>Supported languages</b>                     | <b>Descriptions</b>   | <b>Contributors</b>  | <b>Initialisation</b> |
|--|--|--|---|--|-----------------------|
| <a href="#"><u>Substrate: A rustic vision for Polkadot</u></a> | Runtimes, Pallets                            | CLI, Rust, ReactJS                             | The first public demo of the framework by Dr Gavin Wood at Web3 Summit.                         | <i>Web 3 Foundation</i>  | October 2018          |
| <a href="#"><u>Substrate builders</u></a>                      | Chains, parachains, infrastructure, tools    | Various  | Discover all the decentralised projects that are building with the framework.                   | <i>Parity Technologies</i>                                       | 2018                  |
| <a href="#"><u>Substrate Technical (Public)</u></a>            | Technical support                            | Various  | Find practical advice for troubleshooting errors and get real-time support.                     | <i>Parity Technologies</i>                                       | 2018                  |
| <a href="#"><u>W3F Grants: Programs &amp; Recipients</u></a>   | Grants, ecosystem projects                   | Various  | Search for ongoing Web 3.0 development areas and apply for funding.                             | <i>Web 3 Foundation</i>  | January 2019          |
| <a href="#"><u>Substrate Seminar</u></a>                       | Runtimes, pallets, tools, ecosystem projects | Various  | Learn about various implementations of the framework through presentations from building teams. | <i>Purestake, Patract Labs, Kilt, Subsocial, Limechain, etc.</i> | June 2019             |
| <a href="#"><u>Substrate Tutorials and Workshops</u></a>       | Nodes, SCs (Wasm & EVM), parachains          | CLI, Rust, ReactJS, Ink!, Solidity, Javascript | Learn all the basics needed to build networks and upgrade blockchains.                          | <i>Parity Technologies, Moonbeam</i>                             | July 2019             |
| <a href="#"><u>Relay Chain</u></a>                             | Web 3.0, ecosystem projects                  | Various  | Explore the latest use-cases developed by ecosystem teams.                                      | <i>Parity Technologies</i>                                       | August 2019           |
| <a href="#"><u>Substrate Playground</u></a>                    | Runtimes, Pallets                            | Rust, Javascript                               | Build your blockchain from the ground up through interactive step-by-step tasks.                | <i>Parity Technologies</i>                                       | 2019                  |
| <a href="#"><u>Polkadot{.js}</u></a>                           | Tools  | ReactJS, VueJS, Javascript                     | A collection of tools, libraries, and utilities for blockchain interactions.                    | <i>Parity Technologies</i>                                       | 2019                  |
| <a href="#"><u>Substrate utilities</u></a>                     | Tools  | Javascript                                     | A collection of Polkadot.js API-based utilities for the framework.                              | Shawn Tabrizi  | 2019                  |
| <a href="#"><u>Polkadot Wiki - Build</u></a>                   | General documentation                        | Various  | Access up-to-date information on ecosystem tools and frameworks.                                | <i>Web 3 Foundation</i>  | April 2020            |
| <a href="#"><u>DotLeap</u></a>                                 | Tools  | VueJS, Javascript                              | Build re-usable UI components for blockchains dashboards and widgets.                           | <i>Web 3 Foundation</i>  | May 2020              |

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Version 1.0

|   |                             |                                       |   |                            |               |
|---|-----------------------------|---------------------------------------|---|----------------------------|---------------|
| <a href="#"><u>Srtool</u></a>                             | Runtimes                    | CLI, Rust, Dockerfiles                | A collection of tools for building and verifying runtimes.                    | <i>Parity Technologies</i> | August 2020   |
| <a href="#"><u>DotJobs</u></a>                            | Careers, ecosystem projects | Various                               | Search for ongoing positions and apply to join teams of ecosystem builders.   | <i>Stateless.Money</i>     | October 2020  |
| <a href="#"><u>How does Web 3.0 development work?</u></a> | General guide               | CLI, Rust, ReactJS, VueJS, Javascript | A series of entry-level articles on key concepts, operations, and libraries.  | Anaelle LTD                | January 2021  |
| <a href="#"><u>Polkadot Essentials</u></a>                | Nodes, parachains           | Various                               | Monitor nodes and chain metrics through a customisable dashboard.             | <i>Grafana Labs</i>        | February 2021 |
| <a href="#"><u>Substrate How-to guides</u></a>            | Runtimes, pallets, DApps    | CLI, Rust, ReactJS, Javascript        | Explore specific areas of the framework and complete standalone tasks.        | <i>Parity Technologies</i> | May 2021      |
| <a href="#"><u>#Polkadot</u></a>                          | SCs, DApps, tools           | CLI, Rust, ReactJS, Javascript        | A series of entry-level videos on Smart Contracts and DApps libraries.        | Nick Shulhin               | June 2021     |
| <a href="#"><u>Crunch</u></a>                             | Tools                       | CLI, Rust                             | Automate staking rewards payouts and analytics for validators and nominators. | <i>Turboflakes</i>         | July 2021     |