

# Let's Write a Virtual DOM

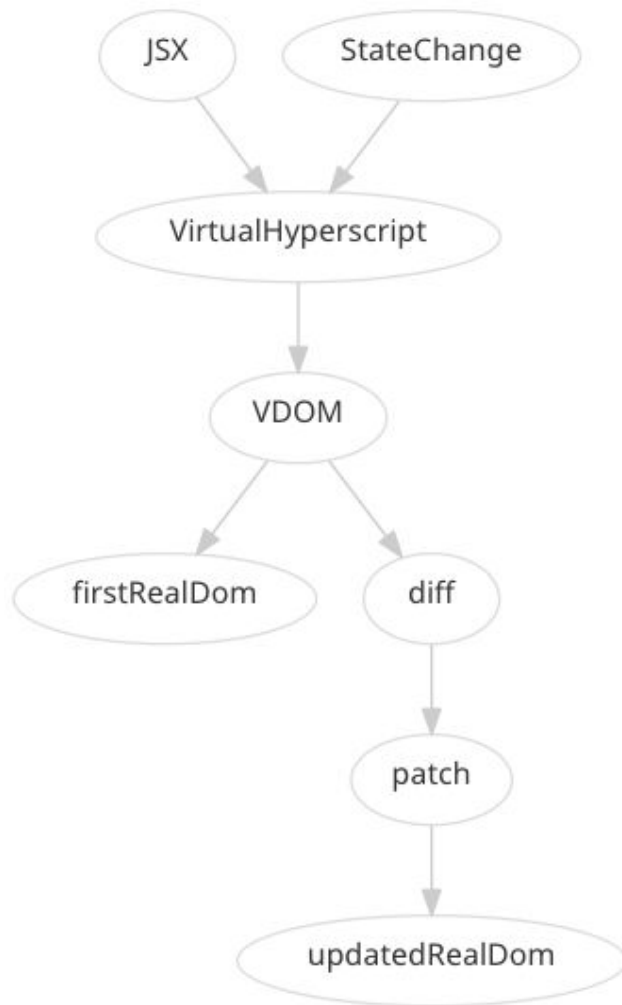
From Scratch

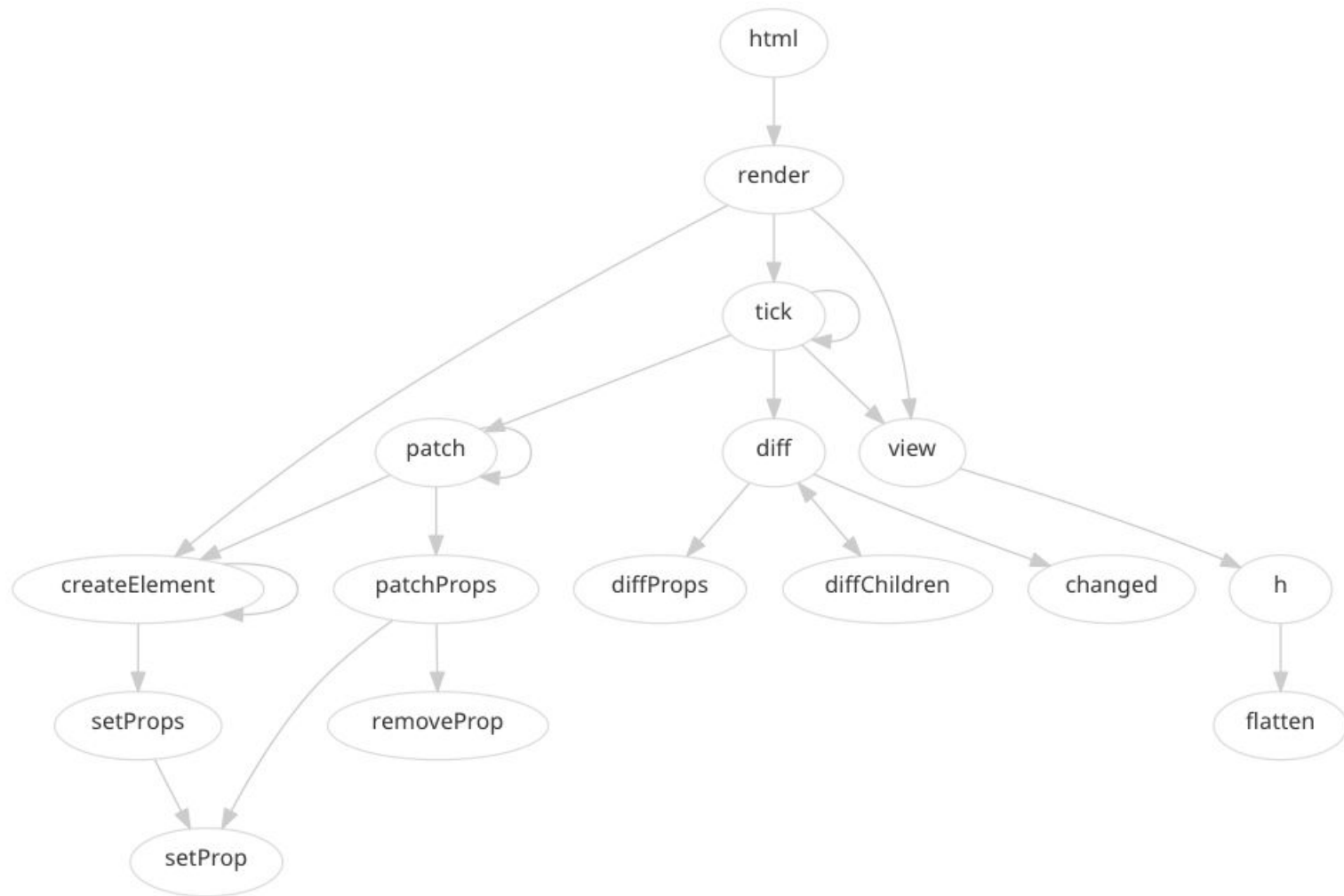
What is a Virtual DOM?

Why?

# Outline

- Overview of project structure, tools, index.html
- JSX transpiling, Virtual hyperscript, VDOM representation
- Rendering real DOM nodes using createElement from virtual nodes
  - Children
  - Properties
- Diff and patch operations to update view from state
  - Tags: diff & patch
  - Children: diff & patch
  - Properties: diff & patch





# What Else

- Events (e.g. onClick, onChange)
- Components and lifecycle functions
- Form elements (value prop is special, boolean props...)
- SVG elements (props are case sensitive)
- Data attributes (e.g. `data-id="1234"`)
- Error checking and handling
- Performance & caching

Thank you! Questions?