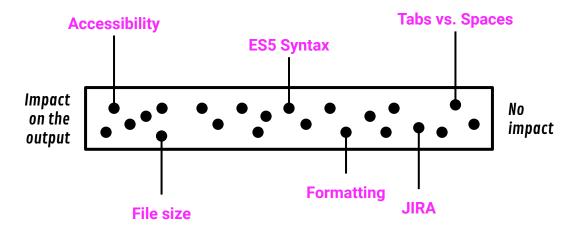
# Make your tooks works

## Background

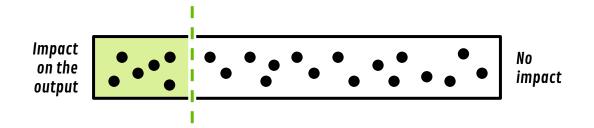
#### Things to do



### **Cognitive overload**

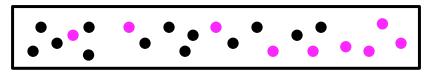


#### **Prioritise**



#### **Automate**

Impact on the output



No impact



## Let your tools do the stuff you don't

need to do.

# Make your tooks works

### **Core Principles**

#### **Our tools should:**

- Help us
- Improve our output
- Be satisfying

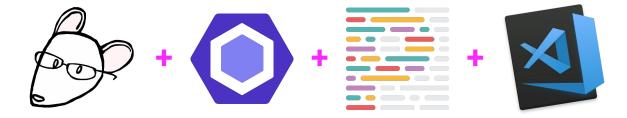
#### Off the shelf tools

- We have VSCode
- Syntax highlighting
- Custom themes
- Inline syntax validation
- Integrated Git + Diffs

```
import React from 'react';
class MyComponent extends React.Component {
   constructor() {
        super();
        this.state = {
            title: 'World'
        };
   componentDidMount() {
        console.log('MyComponent is mounted!');
    clickHandler(title) {
        this.setState({ title });
    render() {
       let { title } = this.state;
       return (
                <h1>Hello, {title}!</h1>
                <button onClick={() => this.clickHandler('React')}>
                    Change title
                </button>
        );
export default MyComponent;
```

#### Automated Formatting

- VSCode plugins and 'Format on Save'
- Automated, not enforced



#### Inline Best Practice hints

- ESLint plugins:
  - react-a11y (accessibility best practices)
  - jest/recommended
  - airbnb/recommended
- As-you-type, not afterwards or one-off audit tasks



#### Inline / Integrated Unit Testing

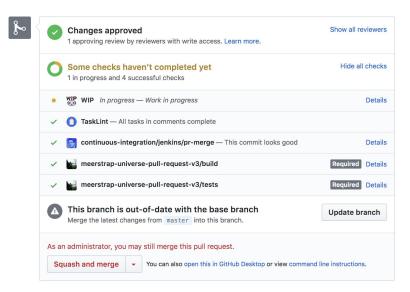
- VSCode plugin
- Continual background testing
- Editor panel integration
- Inline test results, code coverage & error display



#### GitHub Integration for Jenkins / GoCD

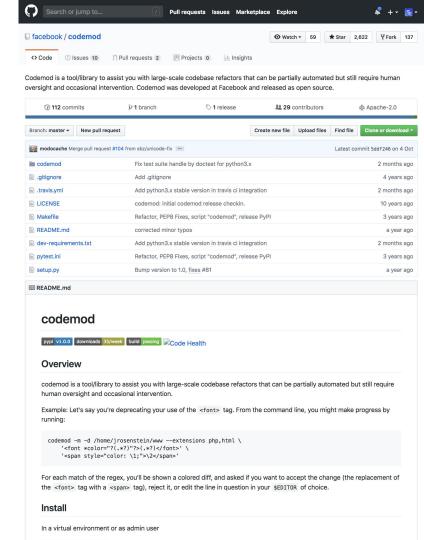
- Automated Unit Tests, code checks in Docker
- Report results in GitHub
- Test for each commit, branch, PR





#### Automated Refactoring

- Command-line refactoring
  - codemod
  - jscodeshift
- Inline refactoring





#### Automated deployment scripts

- Automated repetitive steps:
  - Preflight checks (clean workspace)
  - Build packages
  - Test packages
  - Regenerate docs
  - Tag in git
  - Publish to npm

#### GitHub-JIRA integration

- Creates tickets in JIRA for GitHub Issues & Pull Requests
- Transition tickets in reaction to GitHub webhook events
- Assign users, mirror comments & updates

#### Craftsmanship

Software development is a comparatively new profession.

Building your own tools is not a new idea - it's an old one, actually.

Mass produced tools work for common tasks, but for in-depth bespoke work, it's worthwhile investing in custom tools.



## **Summary**

Make your tools work for you.