Tools Commonly Used

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- Software tools commonly used with Vue projects include
 - ESLint for linting JavaScript, HTML, and CSS
 - Prettier for formatting JavaScript, HTML, and CSS
 - VS Code

ESLint Overview

http://eslint.org/

- "The pluggable linting utility for JavaScript and JSX"
- Can report many syntax errors and potential run-time errors
- Can report deviations from specified coding guidelines
- Error messages identify violated rules,
 making it easy to adjust them if you disagree
- Has --fix mode that can fix violations of many rules
 - modifies source files
- Many ways to configure
 - .eslintrc.json file
 - .eslintrc.js file
 - allows conditionally setting options based on NODE_ENV environment variable
 - "eslint" key in package.json



ESLint Details

- To install, npm install -D eslint
 - Vue CLI projects already have this installed
- Additional recommended installs
 - npm install -D * where * is eslint-config-prettier eslint-plugin-html eslint-plugin-import eslint-plugin-prettier @vue/eslint-config-prettier
- To use from an npm script, add following to package.json

```
"lint": "eslint --fix --quiet src --ext .js,.vue",
```

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--quiet only
reports errors

- Vue CLI projects use this instead "lint": "vue-cli-service lint",
- Editor/IDE integrations available
 - Atom, Eclipse, emacs, Intellij IDEA, Sublime, VS Code, Vim, WebStorm

Recommended ESLint Config

for Vue projects

```
adds knowledge of browser global variables
"env": {
  "browser": true,
                             adds knowledge of ES6 features; no higher env is available
  "es6": true,
  "jest": true,
                             adds knowledge of Jest global variables
  "node": true
},
                             adds knowledge of Node.js global variables
"parserOptions": {
                     for ES2018
  "ecmaVersion": 9,
  "parser": "babel-eslint",
  "sourceType": "module"
                            to use ES6 imports and exports
},
                                          enforces rules with check mark
"extends": [
  "eslint:recommended",
                                          at https://eslint.org/docs/rules/
  "plugin:import/recommended", -
                                          lints ES6 import and export statements
  "plugin:prettier/recommended",
  "plugin:vue/recommended",
                                          turns off all ESLint rules
  "@vue/prettier"
                                          that conflict with Prettier
],
"plugins": ["prettier", "vue"],
                                   runs Prettier as an ESLint rule so
                                   ESLint code formatting rules are not needed
"rules": {
  "no-console": "off",
                                   allows use of console functions
  "vue/attributes-order": "off"
```

Prettier Overview

https://github.com/prettier/prettier

- "An opinionated JavaScript formatter ...
 with advanced support for language features
 from ES2017, JSX, Flow, TypeScript, CSS, LESS, and SCSS"
- "Parses your JavaScript into an AST and pretty-prints the AST, completely ignoring any of the original formatting"
 - "Well actually, some original styling is preserved when practical see empty lines and multi-line objects."
- Can also format JSON, Markdown, and more



Prettier Details

- To install, npm install -D prettier
- To use from an npm script, add following to package.json

```
"format": "prettier --no-bracket-spacing --single-quote --write 'src/**/*.{js,vue}'",

to format all matching files under src directory, enter npm run format
    --write option overwrites existing files with formatted versions

Can also configure in .prettierrc file

{
    "bracketSpacing": false,
    "singleQuote": true
}
in Windows use escaped double-quotes

--write \"src/**/*.{css,js}\"",
```

- Doesn't run on files under node_modules by default
- Editor/IDE integrations available
 - Atom, Emacs, JetBrains, Sublime, Vim, VS Code

Prettier Options



<something

content

</something>

VS.

prop1="value1"

prop2="value1"

prop3="value1"

prop4="value1">

- --jsx-bracket-same-line
 - puts closing > of JSX start tags on last line instead of on new line



- --no-bracket-spacing
- omits spaces between brackets in object literals
- { foo='1' bar=true } VS. {foo='1' bar=true}

prop1="value1"

prop2="value1"

prop3="value1"

prop4="value1"

<something

content

</something>

- --no-semi omits semicolons
- --parser for use with TypeScript, set to "typescript"
- --print-width *n* defaults to 80



--single-quote

This may become the default. See https://github.com/prettier/prettier/issues/4102

- uses single quotes instead of double quotes for string delimiters
- --tab-width n defaults to 2
- --trailing-comma
 - adds trailing commas wherever possible; defaults to none
- --use-tabs uses tabs instead of spaces for indentation

VS Code Recommended Extensions

- ESLint
- Prettier
- Vetur for VS Code
 - adds syntax highlighting, snippets, Emmet support, auto-completion, debugging, and more
 - currently uses too much CPU, at least in macOS
 - change vetur.validation.template setting to false to rely on ESLint and Prettier
 - change eslint.autoFixOnSave Setting to true to run ESLint
 - change editor.formatOnSave Setting to true to run Prettier
- Vue.js Extension Pack for VS Code
 - includes several other extensions including Vetur, Vue Peek, ESLint, Prettier, and more

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VS Code User Settings

To auto-fix ESLint issues in .html, .js, and .vue files

Review

- Install some npm modules
 - npm install -D eslint-config-prettier
 - npm install -D eslint-plugin-html
 - npm install -D eslint-plugin-import
 - npm install -D eslint-plugin-prettier
 - npm install -D @vue/eslint-config-prettier
 - npm install -D prettier
- Create .eslintrc.json file with content on slide 5
- Create .prettierrc file with content on slide 7
- Add following script to package.json
 - "format": "prettier --write 'src/**/*.{js,vue}'",
- To lint all .js and .vue files in project
 - npm run lint
- To format all .js and .vue files in project
 - npm run format