parcel-examples (0.0.1)

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Version 0.0.1, 2020-03-21 21:51:38 UTC

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Travis CI status: [Build Status]

Chapter 1. Introduction

- typescript
- plain javascript
- es next using babel
- rx
- vue
- react
- preact
- angularjs
- yaml
- markdown
- bootstrap
- react-hooks
- · preact-hooks
- and many more!

Read reference documentation

other repos with old examples:

- GitHub: daggerok/parcel-vue-example
- GitHub: daggerok/parcel-react-example

links:

• YouTube: React Today and Tomorrow and 90% Cleaner React With Hooks

generated by generator-jvm yeoman generator (java)

Chapter 2. Implementation

2.1. basic example

prepare project

```
mkdir -p basic

echo "node_modules" >> basic/.gitignore
echo "dist" >> basic/.gitignore
echo ".cache" >> basic/.gitignore
echo '{"scripts":{"start":"parcel src/","build":"parcel build src/index.html"}}' >
basic/package.json

cd basic/
npm init -y
npm i -D parcel-bundler
```

prepare project files

```
mkdir -p src
touch src/index.html
touch src/styles.css
touch src/main.tsx
```

main.tsx

```
(function main() {
  'use strict';
  document.addEventListener('DOMContentLoaded', function onDOMContentLoaded() {
    document.querySelector('#app').innerHTML = '<h1>Hey! </h1>';
  }, false);
})();
```

```
html,
body {
  height: 100%;
}
body {
  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Helvetica, Arial,
  sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol';
}
#app {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100%;
}
h1 {
  font-weight: 300;
}
```

index.html

```
<!doctype html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport"
        content="width=device-width, initial-scale=1.0">
 <meta http-equiv="X-UA-Compatible" content="ie=edge">
 <title>Basic | Parcel</title>
 <link rel="shortcut icon" href="./favicon.ico" type="image/x-icon">
 <link rel="stylesheet" href="./styles.css">
</head>
<body>
 <div id="app"></div>
 <script src="./main.js"></script>
</body>
</html>
```

start development

```
npm start
```

open localhost:1234/

build bundle

```
npm run build
```

verify result

```
npm i -g serve
serve dist/
```

open localhost:5000/

2.2. babel stage-0

parcel needed only .babelrc file and installed required presets

add .babelrc file, install and configure presets: env and stage-0

```
cp -Rf basic babel-stage-0
cd babel-stage-0/
echo '{"presets":["env","stage-0"]}' > .babelrc
npm i -D babel-preset-env babel-preset-stage-0
```

now you can use some cool JS features:

```
const obj = { ololo: 'trololo' };

document.querySelector('#app').textContent = JSON.stringify({
    ...obj,
    hey: 'ho!',
});
```

done.

2.3. react

for React you need even less: just install react library and parcel will recognize everything for you!

```
cp -Rf babel-stage-0 react
cd react/
npm i -S react react-dom
npm i -D babel-preset-react
echo '{"presets":["env","react"]}' > .babelrc
```

add react component:

```
import React, { Component } from 'react';
export class EchoEhlo extends Component {
 constructor() {
    super();
   this.state = {
     message: 'Hey!',
   };
   this.toggle = this.toggle.bind(this);
 toggle() {
   this.setState({
     message: this.state.message.split('').reverse().join(''),
   })
 }
 render() {
    return <h1 onClick={this.toggle}>
      {this.state.message}
   </h1>
 }
}
```

and update code in src/main.tsx file:

build, run, verify...

done.

2.4. preact

do necessary updates from react example:

```
cp -Rf react preact
cd preact/

npm rm react react-dom babel-preset-react

npm i -S preact preact-compat
npm i -D babel-preset-preact babel-plugin-transform-class-properties

echo '{"presets":["env","preact"],"plugins":["transform-class-properties"]}' >
.babelrc
```

implement preact component:

```
import { h, Component } from 'preact';

export /* don't works without default 0.o */ default class EchoEhlo extends Component {

  state = { message: 'Hey!' };
  toggle = () => {
    const curr = this.state.message;
    const reverced = curr.split('').reverse().join('');
    this.setState({ message: reverced, });
  };
  render({}, { message }, {}) {
    return <h1 onClick={this.toggle}>
      {message}
    </h1>
  }
}
```

update entry point:

done.

2.5. vue

to be able build vue apps, in addition to babel example you only need install vue and two dev packages:

```
cp -Rf babel-stage-0 vue
cd vue/
npm i -S vue
npm i -D babel-preset-vue @vue/component-compiler-utils vue-template-compiler
echo '{"presets":["env","vue"]}' > .babelrc
```

add vue component file: AppUseState.vue

```
<template lang="html">
 <div id="app">
    <h1>Hey!
              </h1>
 </div>
</template>
<script>
 export default {
    name: 'app'
 }
</script>
<style lang="css">
 html,
 body {
   height: 100%;
 }
 body {
   font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', Helvetica, Arial,
   sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol';
 }
 #app {
   display: flex;
   justify-content: center;
   align-items: center;
   height: 100%;
 }
 h1 {
   font-weight: 300;
 }
</style>
```

main.tsx

```
import Vue from 'vue'
import App from './components/App.vue'

new Vue({
   el: '#app',
   render: h => h(App)
});
```

2.6. yaml

to be able to parse YAML we need js-yaml package:

```
cp -Rf basic yaml
cd yaml/
npm i -ES js-yaml
```

add YAML file:

```
app:
   map:
    key: value
   list:
   - value 1
   - value 2
```

main.tsx

2.7. markdown

to be able to parse YAML we need parcel-plugin-markdown package:

```
cp -Rf basic markdown
cd markdown/
npm i -ED parcel-plugin-markdown
```

```
# арр
## ololo
**ololo article**
list:
- one
- two
- three
## trololololo
    _0_
    / \\
## js
<!--
title: JavaSCript Article'
metadata:
  ololo: trololo
-->
### JS article
js, ololo, trololo, javascript, olololo ololo, trololo, olololo ololo, trololo,
olololo ololo,
trololo, olololo, js, ololo, trololo, olololo, js ololo, trololo, olololo.....
```javascript
function ololo(arg) {
 arg = arg || 'trololo';
 console.log('ololo', arg);
}
· · ·
```



See also markdowns and markdowns2 projects for non single md-file parsing use case...

## 2.8. markdowns (2)

example how we can handle lazy loading with parcel for markdown files lazy processing on runtime

add ./src/posts folder with some posts in markdown format:

```
import marked from 'marked';
const years = require('./posts/**/*.md');
Object.keys(years).map(year => {
 const months = years[year];
 Object.keys(months).map(month => {
 const days = months[month];
 Object.keys(days).map(day => {
 const posts = days[day];
 Object.keys(posts)
 .map(src => posts[src])
 .forEach(uri => fetch(uri)
 .then(resp => resp.text())
 .then(markdown => marked(markdown))
 .then(html => document.querySelector('#app').innerHTML += html));
 });
 });
});
```

### 2.9. angularjs

with no comments - I tired....

./src/index.html

```
import 'angular/angular-csp.css';
import './styles.css';
//
import angular from 'angular';
import applicationModule from './app';

angular.bootstrap(document, [applicationModule.name], {
 strictDi: true, // data-ng-strict-di=""
 cloak: true, // data-ng-cloak=""
});
```

#### Application module config: ./src/app/index.js

```
/**
 * Application module configuration.
import angular from 'angular';
import uiRouter from 'angular-ui-router';
//
import ComponentsModule from './components';
const applicationModule = angular.module('application.module', [
 uiRouter,
 ComponentsModule.name,
]);
const Config = ($urlRouterProvider, $locationProvider) => {
 $urlRouterProvider.otherwise('/');
 $locationProvider.hashPrefix('!');
};
applicationModule.config(['$urlRouterProvider', '$locationProvider', Config]);
export default applicationModule;
```

#### Components module config: ./src/app/components/index.js

```
/**
 * Components module configuration.
 */

import angular from 'angular';
//
import AppComponentModule from './app';

const componentsModule = angular
 .module('components.module', [
 AppComponentModule.name,
]);

export default componentsModule;
```

#### AppUseState module config: ./src/app/components/app/index.js

```
/**
 * App component module configuration.
 */
import angular from 'angular';
import uiRouter from 'angular-ui-router';
//
import Config from './config.js';
import Component from './component.js';

const appComponentModule = angular
 .module('app.component.module', [uiRouter])
 .component('app', Component)
 .config(['$stateProvider', Config]);

export default appComponentModule;
```

#### AppUseState component config: ./src/app/components/app/config.js

```
export default ($stateProvider) => $stateProvider.state({
 url: '/',
 name: 'app',
 template: `<app></app>`,
});
```

AppUseState component controller: ./src/app/components/app/controller.js

```
export default class Controller {
 constructor() {
 this.$ctrl = this;
}

$onInit() {
 this.greeting = this.first = 'hi';
 this.second = 'yay!';
}

toggleGreeting() {
 this.greeting = this.greeting === this.first
 ? this.second
 : this.first;
}
```

### 2.10. react + bootstrap (4)

prepare

```
cp -Rf react react-bootstrap
cd react-bootstrap/
npm i -S bootstrap
npm i -ED babel-preset-env babel-preset-react babel-preset-stage-0
```

```
{
 "presets": [
 ["env", {
 "browsers": ["last 2 versions", "safari >= 7"]
 }
 }],
 "react",
 "stage-0"
]
}
```

add bootstrap import and add some bootstrap class for styling:

```
import 'bootstrap/dist/css/bootstrap.css';
import React, { Component } from 'react';
export class EchoEhlo extends Component {
 constructor() {
 super();
 this.state = {
 message: 'Hey!',
 };
 this.toggle = this.toggle.bind(this);
 }
 toggle() {
 this.setState({
 message: this.state.message.split('').reverse().join(''),
 })
 }
 render() {
 return <h1 onClick={this.toggle} className='alert-heading'>
 {this.state.message}
 </h1>
 }
}
```

done.

## 2.11. typescript

you don't needed anything special. parcel compiling typescript working out of the box

done.

### 2.12. rx.js + typescript

```
cp -Rf ts rxts
cd rxts/
npm i -E rxjs
```

file main.tsx:

done.

### 2.13. bootstrap.scss

```
cp -Rf react-bootstrap sass-bootstrap
cd sass-bootstrap/
npm i
echo '$primary: #c63 !default;' > src/_variables.scss
mv src/styles.css src/styles.scss
similary fix index.html: styles.css -> styles.scss
```

remove import from file src/components/echo-ehlo.js:

```
// import 'bootstrap/dist/css/bootstrap.css';
```

update file styles.scss:

```
@import "./variables.scss";
@import "../node_modules/bootstrap/scss/bootstrap.scss";
```

done.

### 2.14. react-hooks

edit file main.tsx:

```
import 'babel-polyfill';
import { render } from 'react-dom';
import React, { useState } from 'react';

function App() {
 const [message, setMessage] = useState('Hello');
 const reversed = str => str.split('').reverse().join('');
 const toggleReverse = () => setMessage(reversed(message));

 return <h1 onClick={toggleReverse}>
 { message }
 </h1>
}

render(
 <App/>,
 document.querySelector('#app')
);
```

done.

### 2.15. preact-hooks

edit file app.js:

```
import { h, render } from 'preact';
import { useState } from 'preact/hooks';
import React from 'preact/compat';

function App() {
 const [message, setMessage] = useState('Hello');
 const reversed = str => str.split('').reverse().join('');
 const toggleReverse = () => setMessage(reversed(message));

 return <h1 onClick={toggleReverse}>
 { message }
 </h1>
}

render(
 <App/>,
 document.querySelector('#app')
);
```

done.

### 2.16. react-hooks-typescript

install packages

```
npm i -ED parcel-bundler parcel-plugin-static-files-copy scss
npm i -ED typescript @types/node @types/react @types/react-dom
npm i -ED babel-core babel-preset-env babel-preset-react @babel/preset-typescript
npm i -E react react-dom
```

```
{
 "name": "react-hooks-ts-app",
 "main": "./src/index.html",
 "devDependencies": {
 "@babel/preset-typescript": "7.9.0",
 "@types/node": "13.9.2",
 "@types/react": "16.9.25",
 "@types/react-dom": "16.9.5",
 "babel-core": "6.26.3",
 "babel-preset-env": "1.7.0",
 "babel-preset-react": "6.24.1",
 "parcel-bundler": "1.12.4",
 "parcel-plugin-static-files-copy": "2.3.1",
 "pm2": "4.2.3",
 "sass": "1.26.3",
 "typescript": "3.8.3"
 "dependencies": {
 "react": "16.13.1",
 "react-dom": "16.13.1"
 },
 "staticFiles": {
 "staticPath": "./src/public",
 "watcherGlob": "**"
 },
 "babel": {
 "presets": [
 "env",
 "react"
 1
 },
 "scripts": {
 "dev": "parcel src/index.html --no-cache",
 "build": "parcel build src/index.html --no-cache",
 "start": "pm2 start 'npm run dev' --name app",
 "restart": "pm2 restart app",
 "stop": "pm2 kill",
 "logs": "pm2 logs"
 }
}
```

```
import * as React from 'react';
import * as ReactDOM from 'react-dom';
import { App } from './components/App';
import { StoreProvider } from './store/Store';
import { UseStateApp } from './components/UseStateApp';
import { UseReducerApp } from './components/UseReducerApp';
import { UseContextStoreApp } from './components/UseContextStoreApp';
const { render } = ReactDOM;
render(
 <React.Fragment>
 app:
 <App/>

 useState app:
 <UseStateApp/>

 Provider useContext app:
 <StoreProvider>
 <UseContextStoreApp/>
 </StoreProvider>

 useReducer app:
 <UseReducerApp />

 </React.Fragment>,
 document.querySelector('#app')
);
```

#### edit file components/App.tsx:

```
import * as React from 'react';
export const App = () => <h1>
 React Hooks TypeScript Apps
</h1>
```

#### edit file components/UseStateApp.tsx:

```
import * as React from 'react';
const { useState } = React;

export function UseStateApp(): JSX.Element {
 const [state, setState] = useState<string>('Store');
 const reverse = () => setState(state.split('').reverse().join(''));

return (
 <h1 onClick={reverse}>
 state: { state }
 </h1>
);
}
```

#### edit file components/UseReducerApp.tsx:

```
import * as React from 'react';
import { reducer } from '../store/Store';

const { Fragment, useReducer } = React;

export function UseReducerApp(): JSX.Element {
 const [state, dispatch] = useReducer(reducer, { message: 'reducer app' });

 return <Fragment>
 {console.log('reducer:', state)}
 <h1 onClick={() => {
 dispatch({ type: 'SET', payload: state.message });
 }}
 { state.message }
 </h1>
 </Fragment>
}
```

```
import * as React from 'react';
import { Store, reducer } from '../store/Store';
const { Fragment, useContext, useReducer } = React;
export function UseContextStoreApp(): JSX.Element {
 const store = useContext(Store); // see main.tsx => StoreProvider
 const [state, dispatch] = useReducer(reducer, store);
 return <Fragment>
 {console.log('store:', store, 'state:', state)}
 <h1 onClick={() => {
 dispatch({ type: 'SET', payload: state.message });
 }}>
 { store.message }
 { state.message }
 </h1>
 </Fragment>
}
```

done.

### 2.17. react-hooks-typescript

install packages

```
npm i -ED parcel-bundler parcel-plugin-static-files-copy scss
npm i -ED typescript @types/node
npm i -ED babel-core babel-preset-env babel-preset-preact @babel/preset-typescript
npm i -E preact
```

```
{
 "name": "react-hooks-ts-app",
 "main": "./src/index.html",
 "devDependencies": {
 "@babel/preset-typescript": "7.9.0",
 "@types/node": "13.9.2",
 "@types/react": "16.9.25",
 "@types/react-dom": "16.9.5",
 "babel-core": "6.26.3",
 "babel-preset-env": "1.7.0",
 "babel-preset-react": "6.24.1",
 "parcel-bundler": "1.12.4",
 "parcel-plugin-static-files-copy": "2.3.1",
 "pm2": "4.2.3",
 "sass": "1.26.3",
 "typescript": "3.8.3"
 "dependencies": {
 "react": "16.13.1",
 "react-dom": "16.13.1"
 },
 "staticFiles": {
 "staticPath": "./src/public",
 "watcherGlob": "**"
 },
 "babel": {
 "presets": [
 "env",
 "react"
 1
 },
 "scripts": {
 "dev": "parcel src/index.html --no-cache",
 "build": "parcel build src/index.html --no-cache",
 "start": "pm2 start 'npm run dev' --name app",
 "restart": "pm2 restart app",
 "stop": "pm2 kill",
 "logs": "pm2 logs"
 }
}
```

```
import { useState } from 'preact/hooks';
import * as React from 'preact/compat';
import { JSXInternal } from 'preact/src/jsx';

type Element = JSXInternal.Element;

export function AppUseState(): Element {
 const [message, setMessage] = useState('Hello');
 const reversed = (str: string) => str.split('').reverse().join('');
 const toggleReverse = () => setMessage(reversed(message));

return <h1 onClick={toggleReverse}>
 { message }
 </h1>
}</h1>
```

#### edit file main.tsx:

done.

# Chapter 3. Links

- parcel
- parcel examples
- react
- preact
- vue
- GitHub: parcel-bundler/awesome-parcel
- GitHub repo
- GitHub pages