

Application testing

How to make less bugs

Agenda

Unit vs integration vs e2e testing

When to use?

Differences

React testing library vs Enzyme

Npm auditing

Project update

Unit vs integration vs e2e testing

- Unit
 - Enzyme + jest
 - Chai
 - Karma
 - Mocha
 - Jasmine
- Integration testing
 - Cypress
- E2e testing
 - Selenium



Enzyme

- Dead (no official support for react 17 <https://github.com/enzymejs/enzyme/issues/2524>)
- Was super popular
- Introduced snapshot tests
- Direct access to React state
- State update supports with `wrapper.update()`
- Different levels of renders (shallow, render, mount)

<https://gist.github.com/fokusferit/e4558d384e4e9cab95d04e5f35d4f913>

React testing library

- Official support from React
- No direct access to React state
- Support of hook testing
- Support for async testing
- Element selectors with built-in functions

<https://testing-library.com/docs/queries/about#types-of-queries>

- Perfect guidelines <https://kentcdodds.com/blog/common-mistakes-with-react-testing-library>

Snapshot testing

- Testing how your UI will actually look like (at least in the dom)
- Somewhat integration testing
- Prone to shipping bugs
- Can create huge snapshot files

Npm auditing

- Easy and fast security fixes
- Performs a check of available vulnerabilities
- If easy fix (by updating to newer version) is available it will provide it

Project update

- Any questions?
- Free time to code your UIs
- Free time to discuss any problems

- Old
 - jQuery
 - Ajax
 - Single Session
 - Variables
 - IE drove it in the past
 - Lodash
 - Callback hell
 - Bootstrap
- New
 - Transpilers
 - JS is slowly moving towards functional programming - map, lambda, reduce, etc.
 - SSO with JWT
 - Improved Browser API
 - Dependency hell
 - Build tools - module based codebase
 - Multiple free and opensource design systems
 - Virtual DOM, component architecture, pure functions - React

Single sign on/out/only



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Popis problemu

- Two scenarios
 - Single page web application
 - Library to used in any further project
- All build processes managed from one place
 - Easy use once we have everything all set up
- We want to use the newest javascript goodies
- Some framework so we have easier DOM manipulation
- One package manager

Historie – aneb pred vice nez 5 lety

- Bower was the main place to go for packages
 - It is slowly dying and on 02 Oct 2017 was announced that users should migrate to something else
- First there was Grunt
 - On 11 January 2012 this first task runner was introduced, it was a breakthrough in frontend development.
 - Pros: Fairly simple, easy to use
 - Cons: Temporary files, piping one file trough multiple tasks was cumbersome
- Then there was Gulp.js
 - On 26 September 2013 was released taks runner that was heavily inspired by Grunt
 - Pros: Faster, file piping
 - Cons: Config can be really confusing to newcomers
- jQuery
 - Most hated and loved library to manipulate DOM

Proc to selhalo

- NPM took over because it simply had a lot more packages
- NPM also introduced several built in scripts, that ca be ran at certain point of installation/build
- Package managers now contain task runner
- Configs were too hard to maintain - few people really understood file piping
- Debugging of build process was not so easy
- Modern build tools have much better features
 - HTTP/2 code splitting
 - Built in minification
 - Built in sourcemaps
 - Tree shaking
 - And many more

Dnesni stav - package manager / task runner

- Yarn
 - Developed by Facebook
 - Supports workspaces - great for monorepos
 - Easier task runner and package installation
 - First to introduce lock file
- NPM
 - Developed by Google
 - Comes with node
 - Contains NPX
 - Convenient for larger teams spread across globe
- PNPM
 - Honorable mention - hard linking packages instead of downloading and installing

Dnesni stav – build nastroje

- Webpack
 - All purpose build tool
 - Extensive configuration options
 - Configuration is required
 - Extensible
- Parcel
 - Zero config file
- Rollup
 - Focus on building ES libraries

Nutnost transpileru, co to je?

- Babel
 - Javascript transpiler to provide backwards compatibility of new JS syntax quirks and fashion
 - Each file is parsed separately and compiled into native JavaScript
 - Huge collection of plugins - you can even write your own plugins
- Typescript
 - JavaScript flavor/superset with data types
 - Compiles into JavaScript
 - Custom plugins called Language Service Plugin - not that used as with babel

Babel config

- Multiple formats
 - JS, JSON, ES6
- Option to write custom functions in plugins [1]
- `BABEL_ENV` to use different config per different environment
- Option to write config in package.json

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      {
        "targets": "> 0.25%, not dead"
      }
    ],
    "@babel/react",
  ],
  "plugins": [
    [
      "@babel/plugin-proposal-decorators",
      {
        "legacy": true
      }
    ],
    "babel-plugin-lodash",
    "@babel/plugin-proposal-class-properties"
  ]
}
```

Scenar: Webova aplikace – Parcel vs Webpack

- React application
- Dev server
 - Proxy to API
- HTML template
- Tree shaking
- One config to rule them all (dev vs prod)
- Custom envs from terminal/.env file
- Static files loader - images, styles

Scenar: Knihovna – Rollup vs Webpack

- React library
- Bundled to one file and to multiple files as well
- Externals
 - 3rd party libraries not bundled in final build
- Named vs Default exports
- Multiple environments
 - ESM, UMD, CommonJs

Conclusion library

Webpack

- No native support for full ESM bundles
 - Webpack 5 promises to implement it
- Harder to set-up
- Easier to read

Rollup

- Everything has to be done through plugins +/-
- Smaller bundle size
- Supports native ESM!
- Named exports
 - You need to list all named exports

Conclusion - funny

- Webpack is like VIM
 - Hard to setup and if something breaks you have to really understand it
 - But the things that can be done with it are almost limitless
- Parcel is like MS word
 - No need to configure anything
 - If you need to tweak something up, it's really hard to do
- Rollup is like VS Code
 - One of the greatest software for one thing
 - Handles poorly web apps

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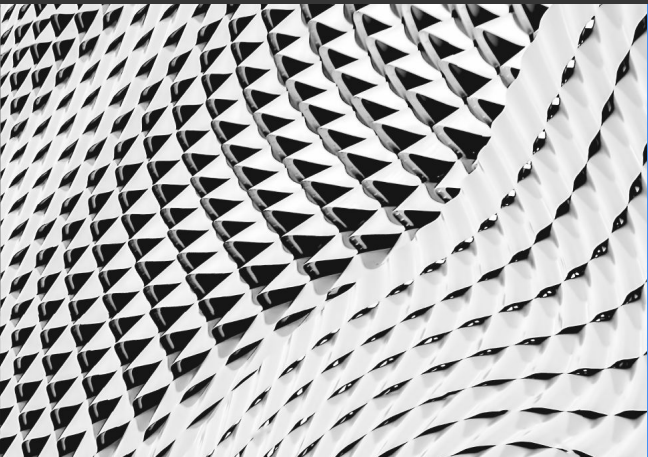
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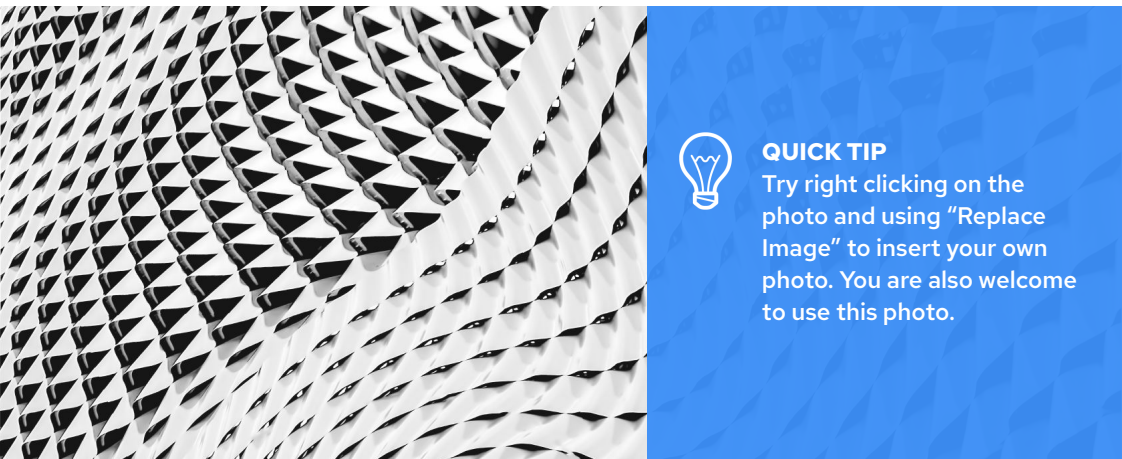
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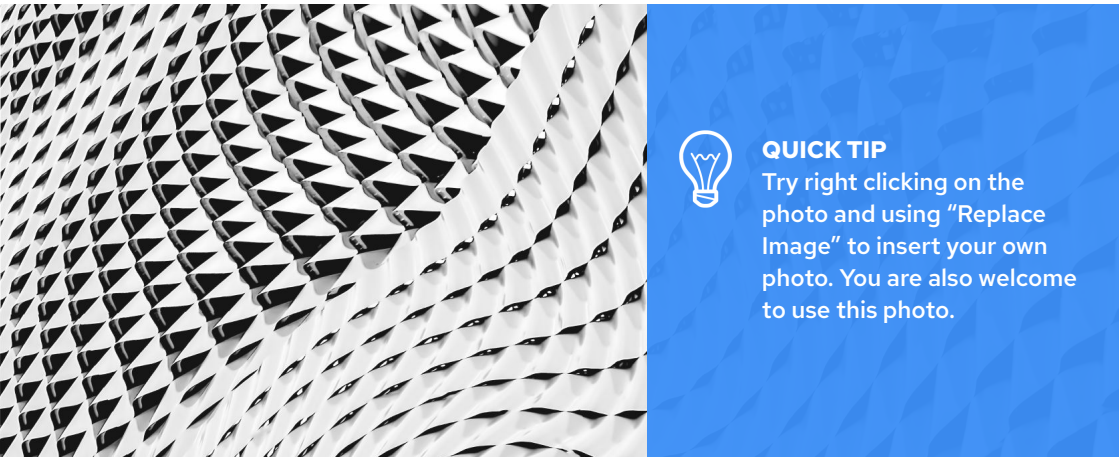
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What we'll discuss today

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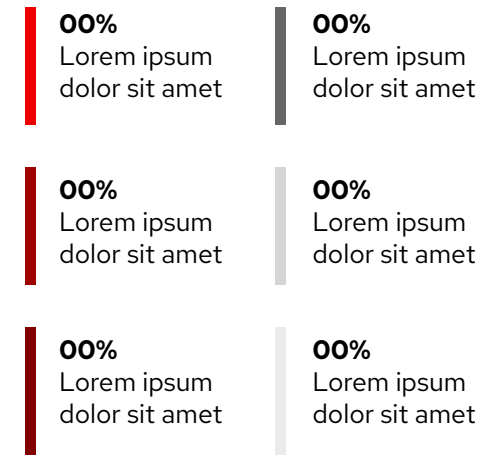
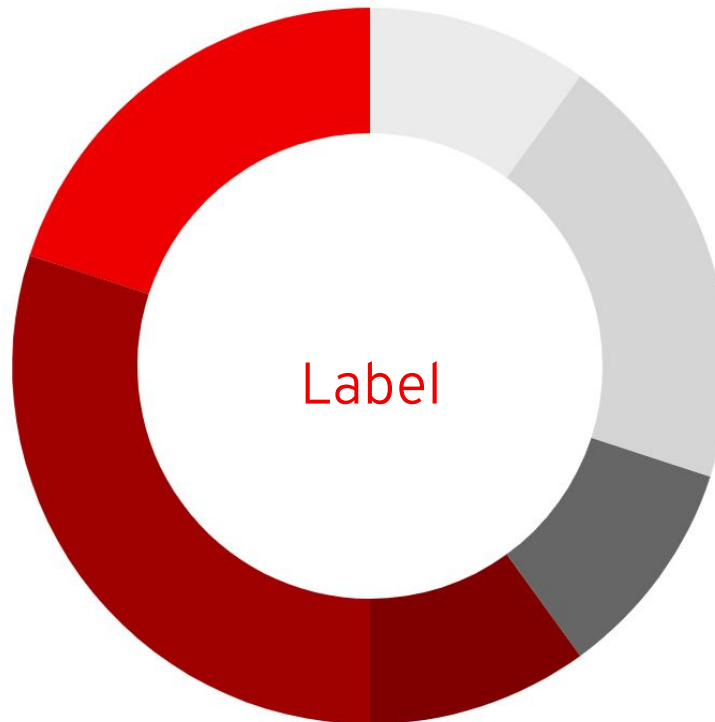
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What we'll discuss today

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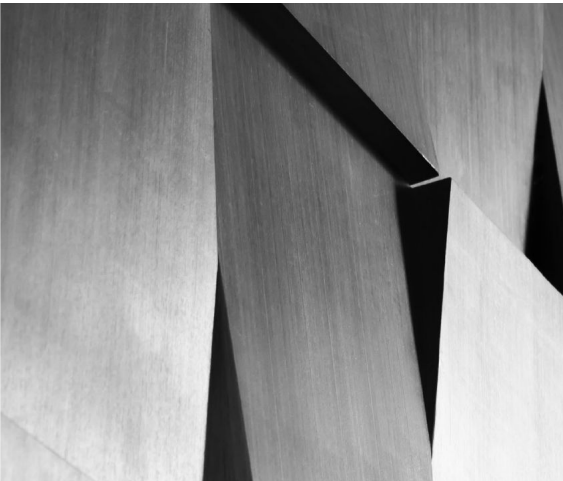
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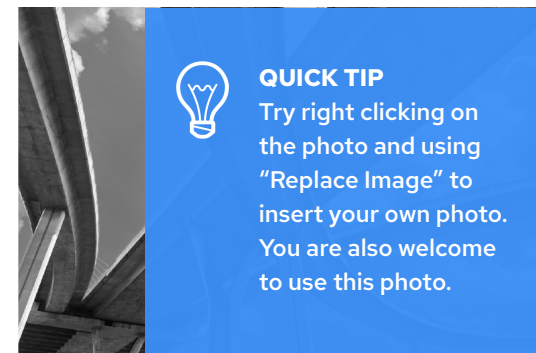
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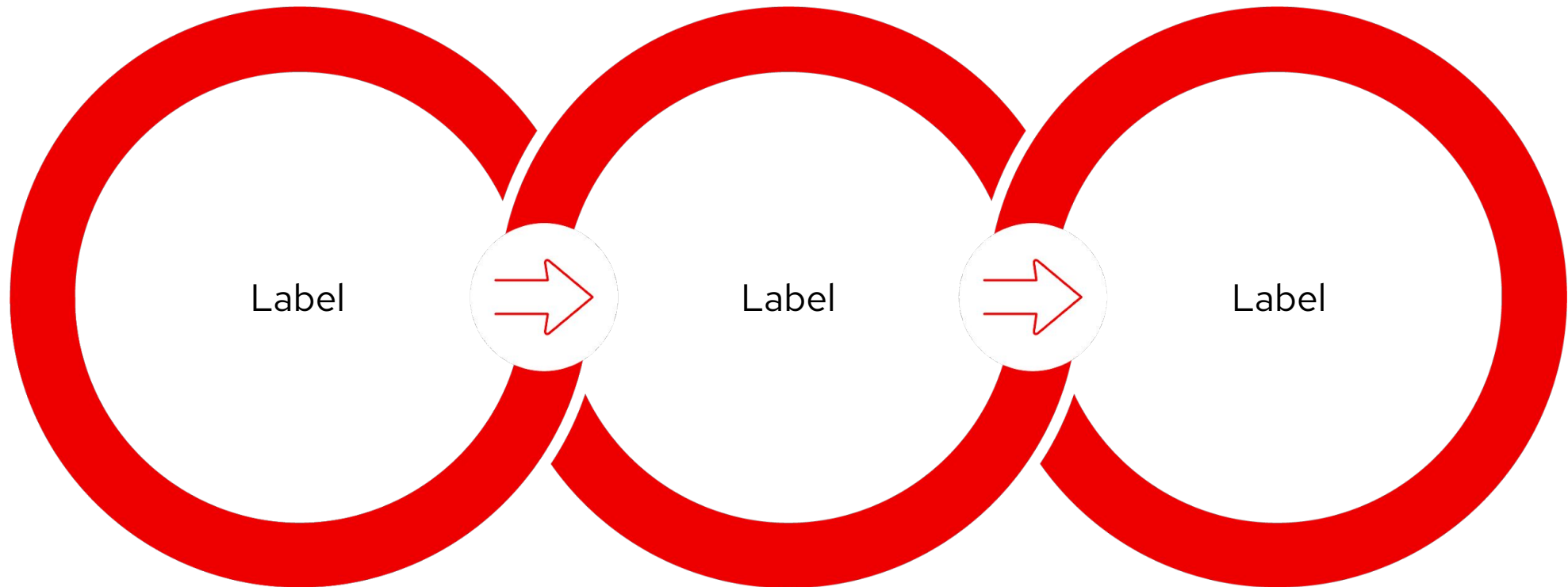


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CTO, Acme Unlimited



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CTO, Acme Unlimited



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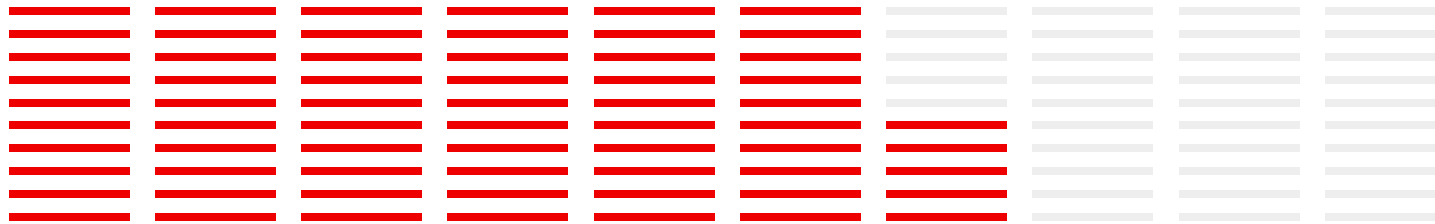
Data slide templates

Table slide templates

Timeline slide templates

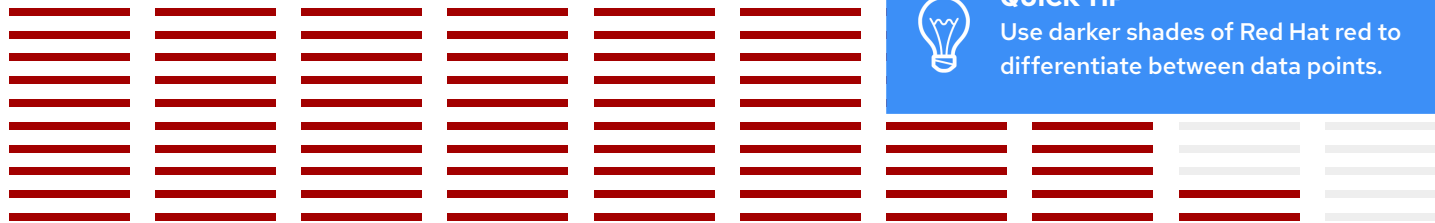
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QUICK TIP

Use darker shades of Red Hat red to differentiate between data points.

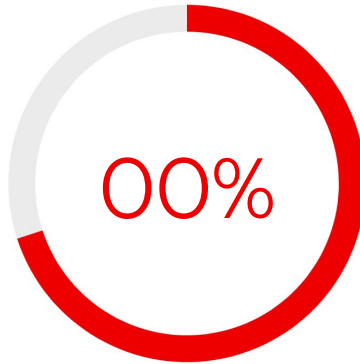
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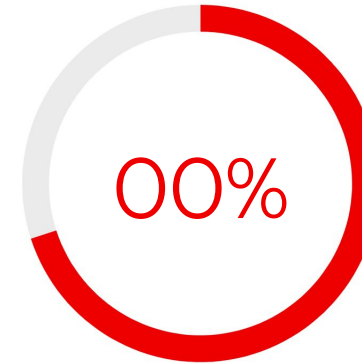
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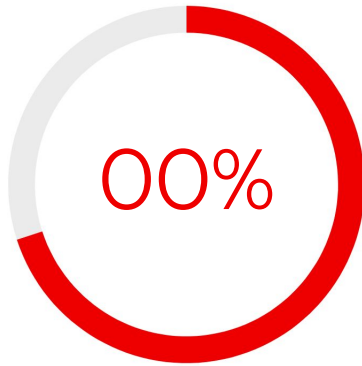


QUICK TIP

To edit a chart, select it and click the dropdown arrow in the top right. Select "Open source." The percentage will need to be updated manually.

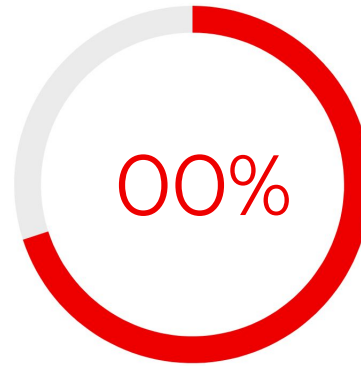
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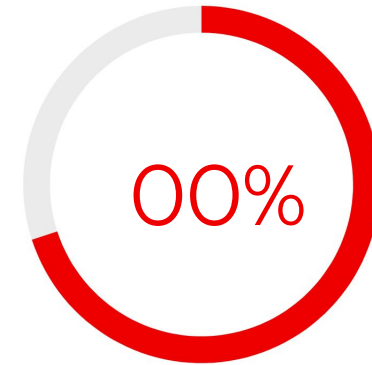
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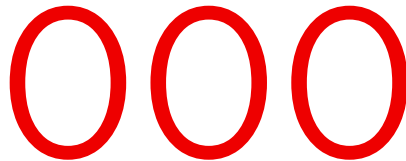
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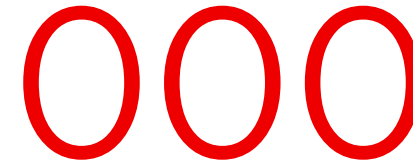
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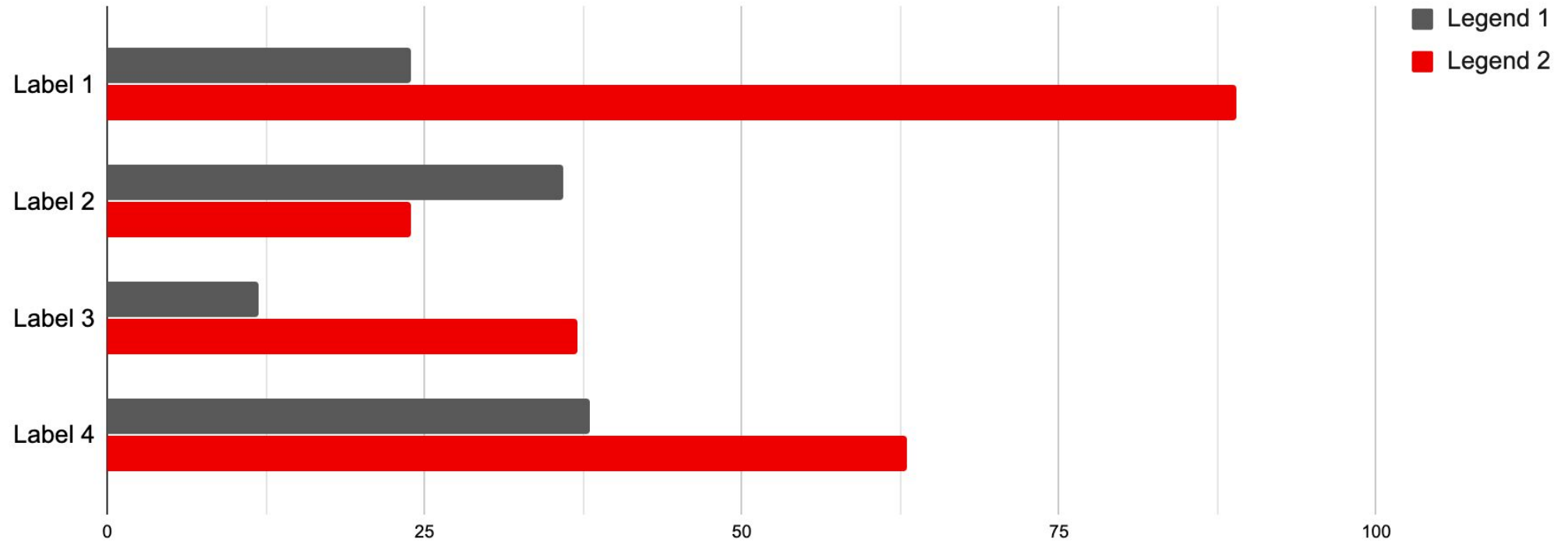
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QUICK TIP

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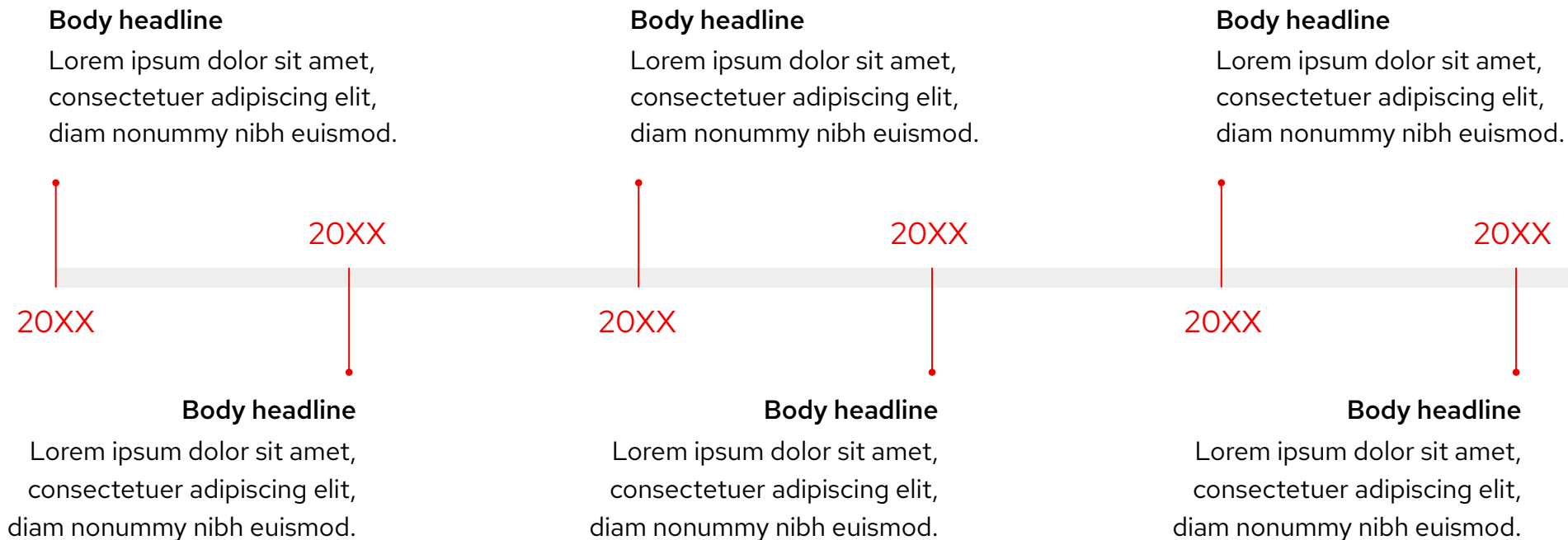
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