



Deployment, charting, JWT

Services for app hosting, how to plot a chart,
what is JWT

Agenda

Deploying your app to the world

Heroku vs Openshift

Netlify vs Surge

Hosting on google cloud

Charting

JWT

Deploying your application to the world - practices

- Multiple platforms to deploy your application (PaaS - platform as a service)
- Usually through CI/CD (continuous integration and continuous delivery) pipeline
- Credentials stored on the server
- Application served on one server, DB on other and SSO on third
 - Microservices

Deploying your application using Heroku or Openshift

- Heroku and Openshift are Platforms as a Service for multiple languages
- Stable pipeline and logging services
- Possibility to hook directly to git repository with custom build commands so you don't have to build your app before deploying it

- Heroku has free tier with limited bandwidth and running processes

- Openshift can be run on any server and used as a PaaS with free tier as well but needs to be resubscribed



Deploying your application using Netlify or Surge

- Netlify is directly connected to Git repository and can run specific commands limited to one running command
- Netlify allows to edit domain names as 3rd domain name level (your-app.**netlify.com**)

- Surge has no web service, everything is done through CLI
- Same as Netlify it allows changing domain as 3rd domain name level (your-app.**surge.sh**)



netlify



surge

Hosting your application on google cloud

- Similar to Heroku and Openshift
- Comes with custom GIT repository
- Option to host API and frontend app from same service
- Pay as you go
 - You'll pay for number of visits or API hits etc.

- Two options
 - Google cloud - multiple services not only for serving FE app
 - Firebase - frontend and android apps



Charting in react

- Plotly
 - Made by company focused on data visualization and manipulation
 - Animations and data visualization out of the box
 - [Covid trends](#)
- Recharts
 - Easy to use
 - Builds on top of d3
- Nivo
 - Huge selection of charts
 - Support for SVG, Canvas and plain HTML
 - Really nice documentation where you can test your code

Charting in react - continue

- Uber
 - Plot library build by uber company
 - Comes with a [storybook](#) to test your data
- VX
 - Direct connection to d3 in order to display data in React
 - Small bundle size
 - Aims to be a platform for your charts
- Victory
 - Easy to use
 - Very modular
- Examples <https://codesandbox.io/s/recurring-hawking-wnbki9>

JWT

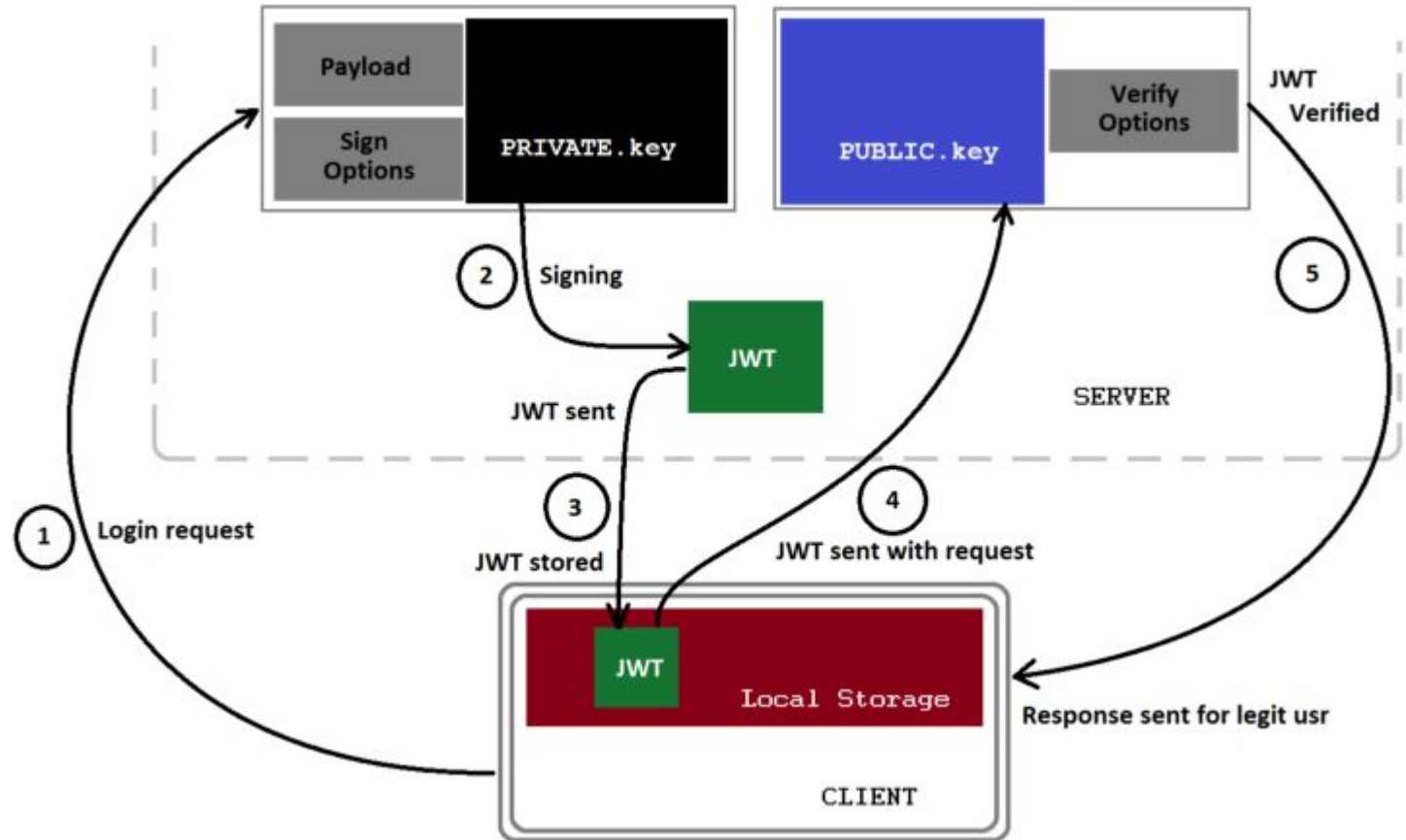
- It's an open standard used for Authorization and Information exchange
- First auth server creates JWT token (doesn't have to be an API server)
 - Header - contains type and signature method
 - Payload - the actual user data
 - Signature - header + payload + secret (can be priv/pub key)

Signatures are not encryptions!

- Requests to server contains Bearer token as Authorization method (can also be stored in cookie, not ideal way)

JWT - RS256

- JWT provider uses private key to generate the JWT token
- API server uses public key of JWT provider to verify the token is correct



JWT - HS256

- JWT provider uses secret to sign the token
- API server same secret to verify the token



Project update

- Let's add a table to the project
- Let's add a chart library to the project

- 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

```
{
  "presets": [
    [
      "@babel/env",
      {
        "targets": "> 0.25%, not dead"
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    ],
    "@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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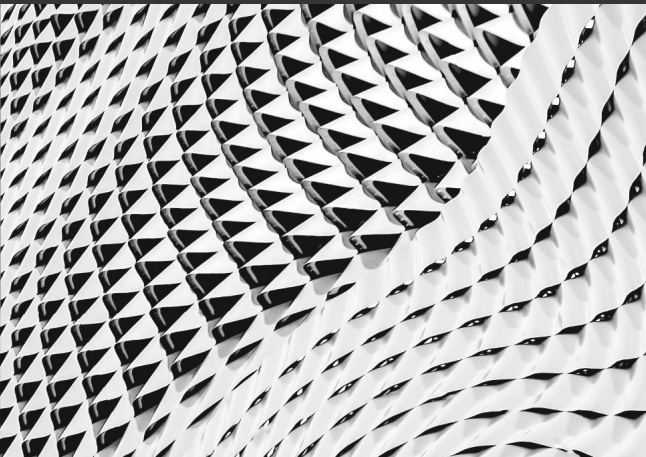
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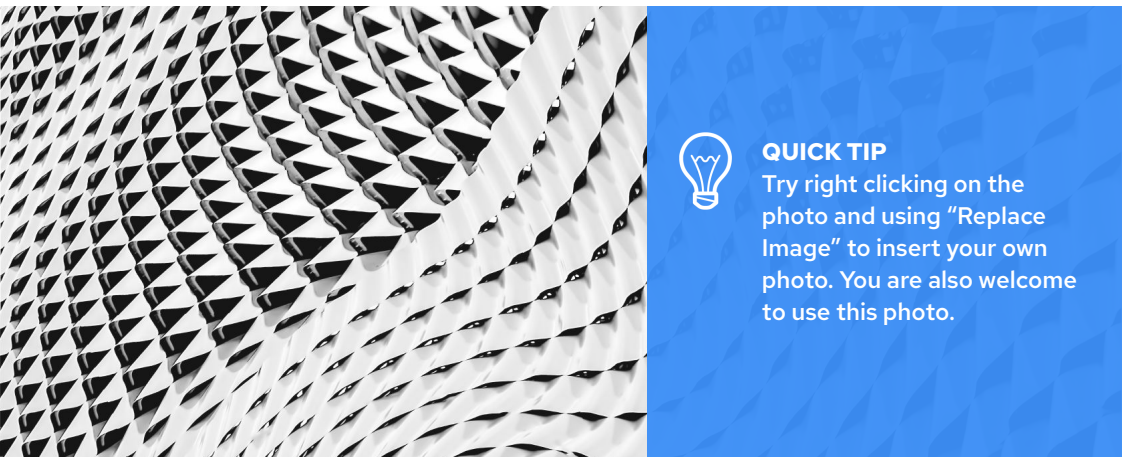
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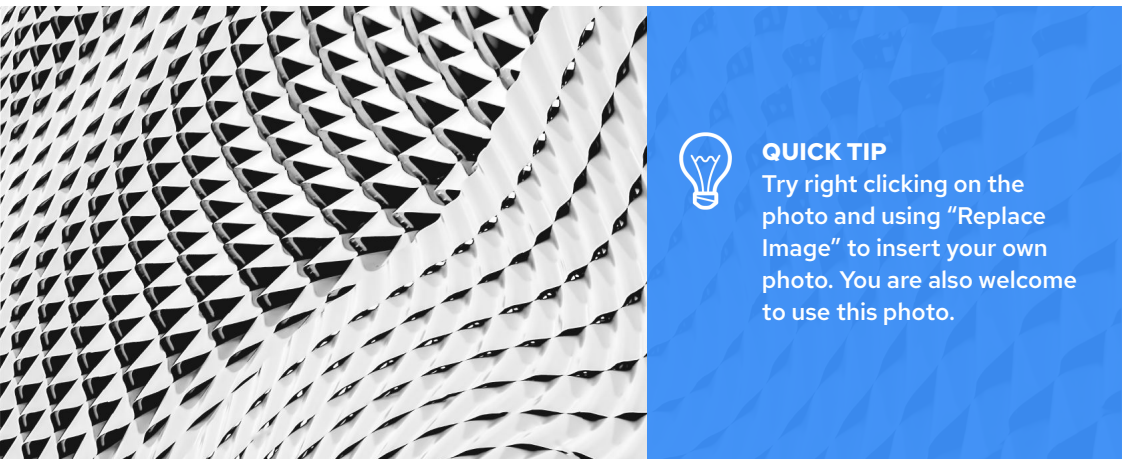
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What we'll discuss today

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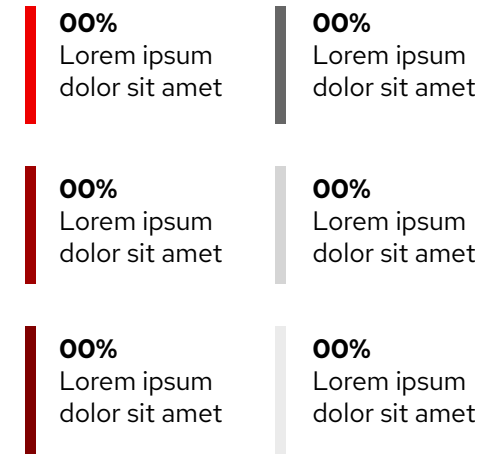
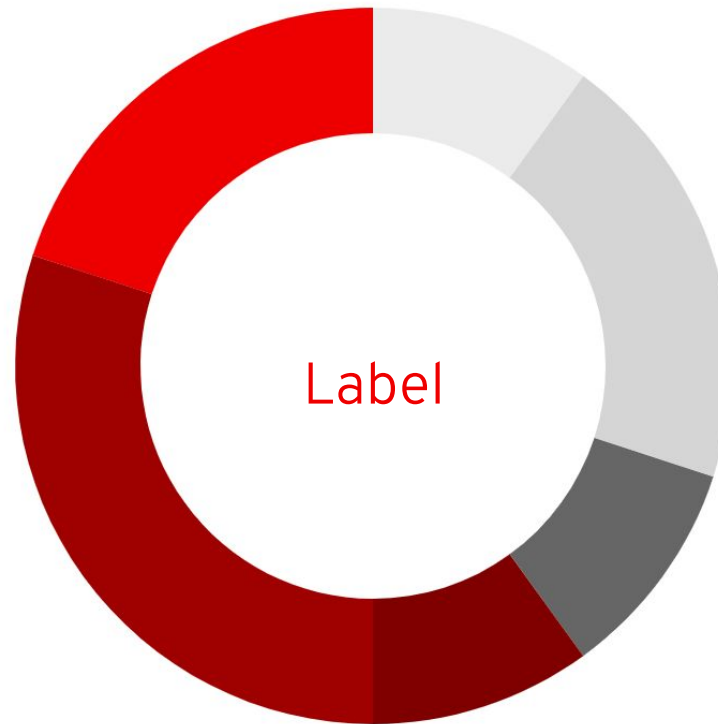
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What we'll discuss today

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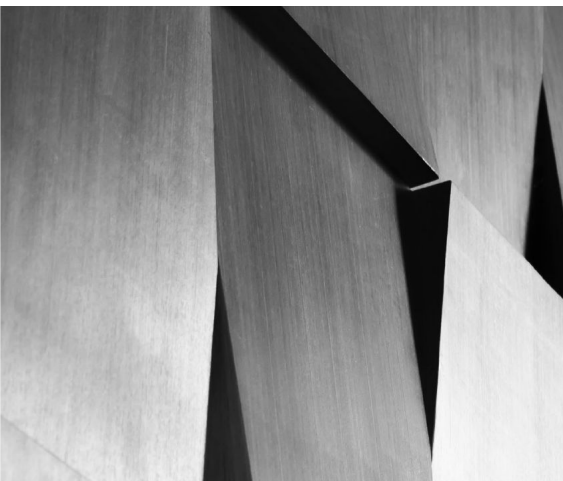
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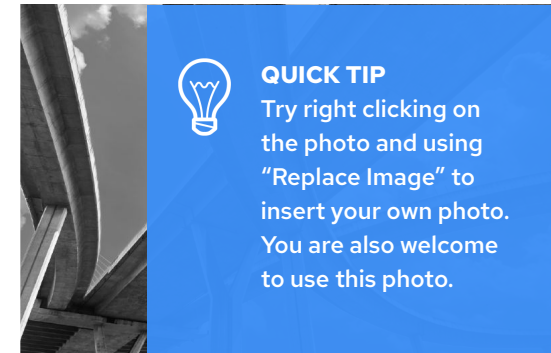
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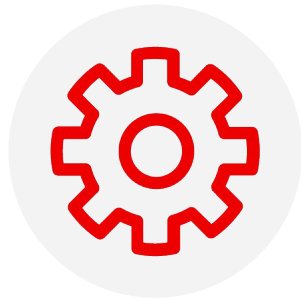


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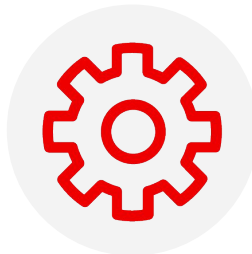


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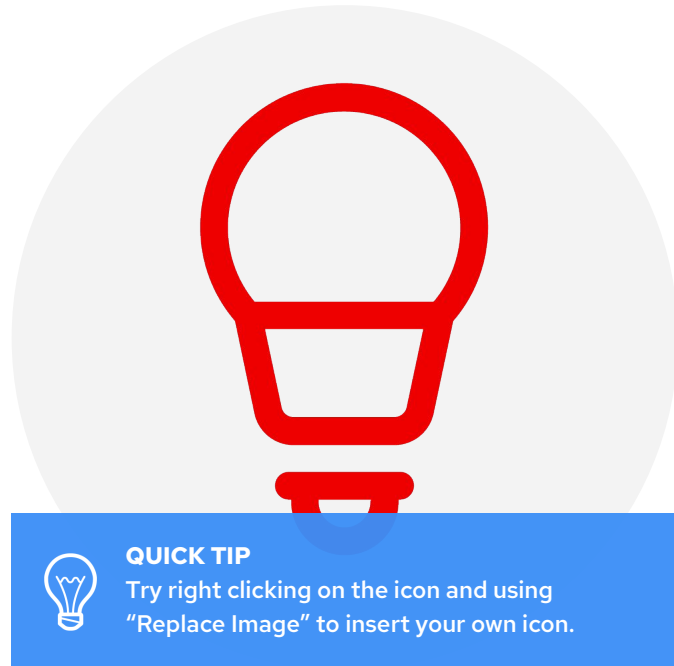


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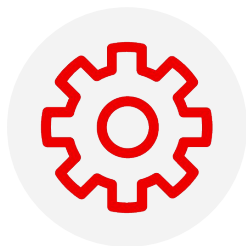
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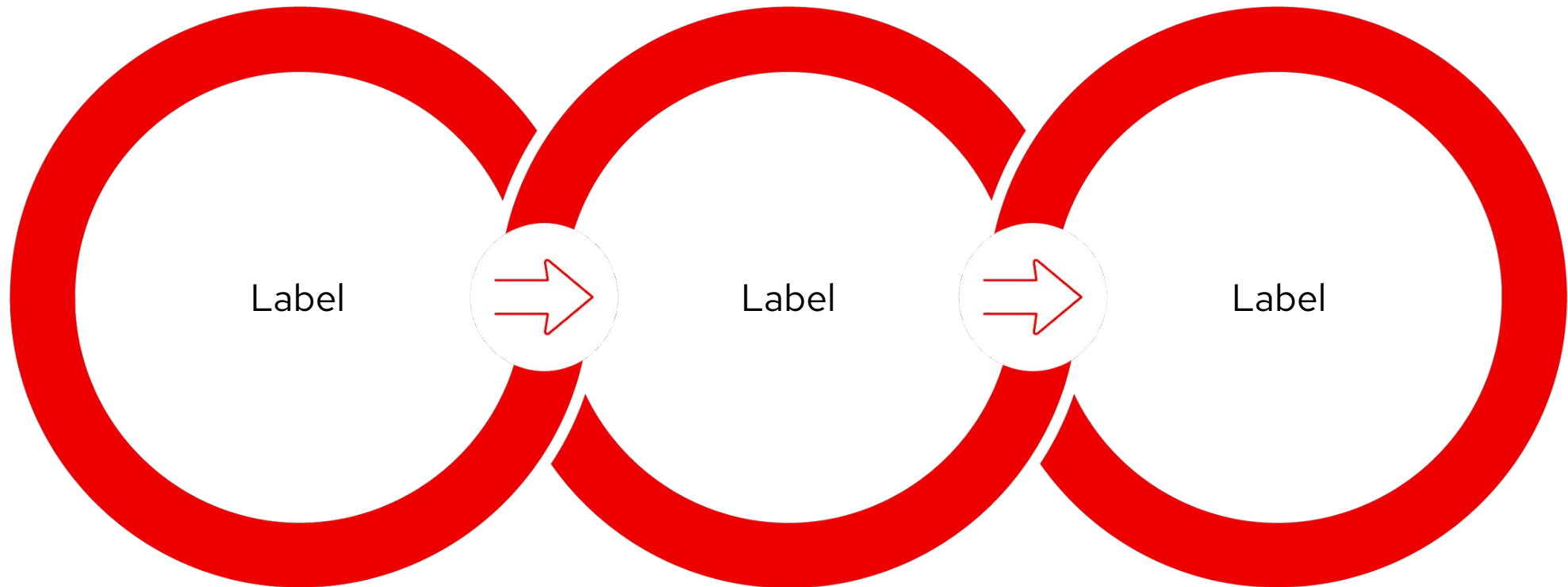


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John Doe
CTO, Acme Unlimited



QUICK TIP

Using a photo with the large quote is optional. Try right clicking on the photo and using “Replace Image” to insert your own photo.

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John Doe
CTO, Acme Unlimited

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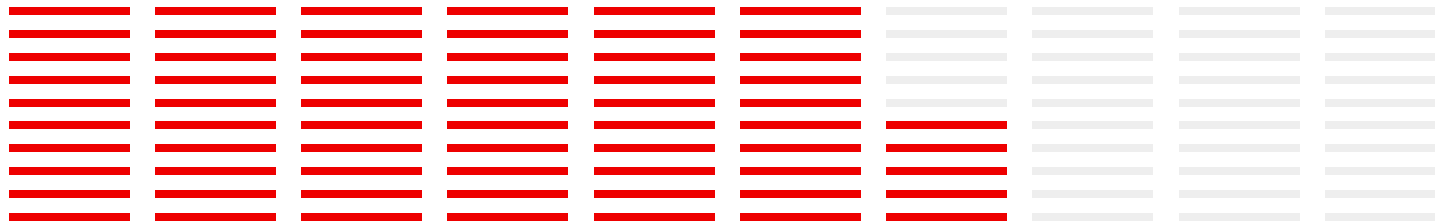
Data slide templates

Table slide templates

Timeline slide templates

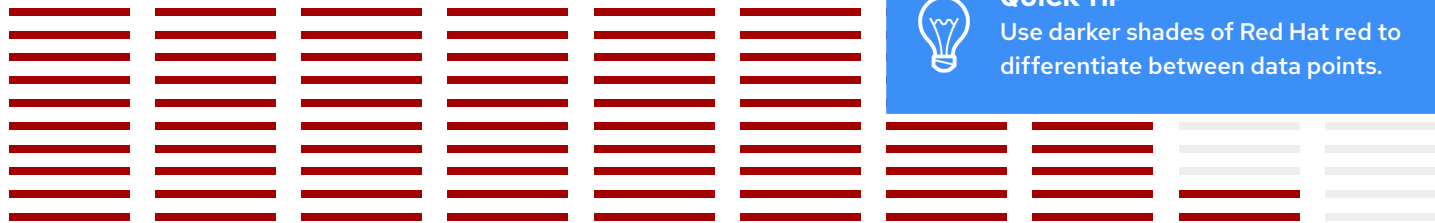
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Use darker shades of Red Hat red to differentiate between data points.

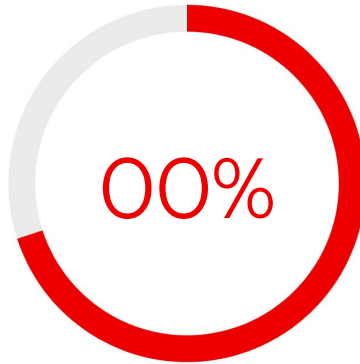
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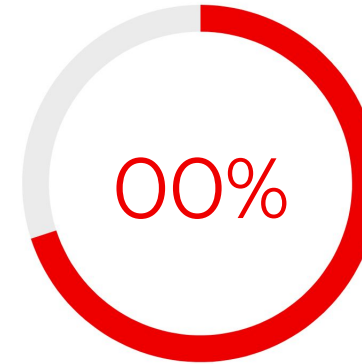
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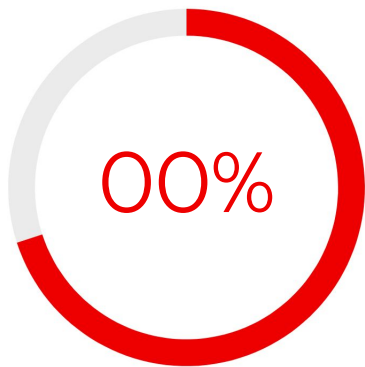


QUICK TIP

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.

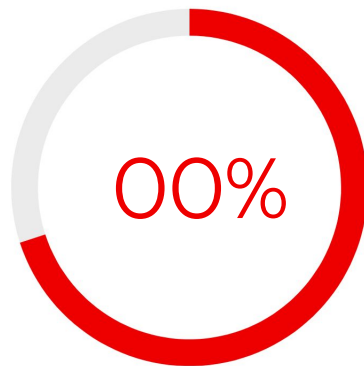
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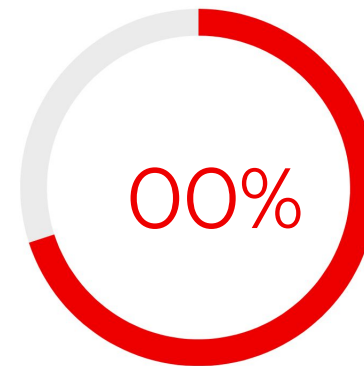
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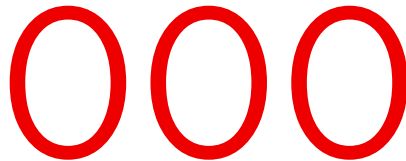
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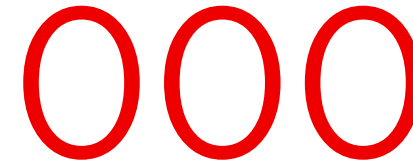
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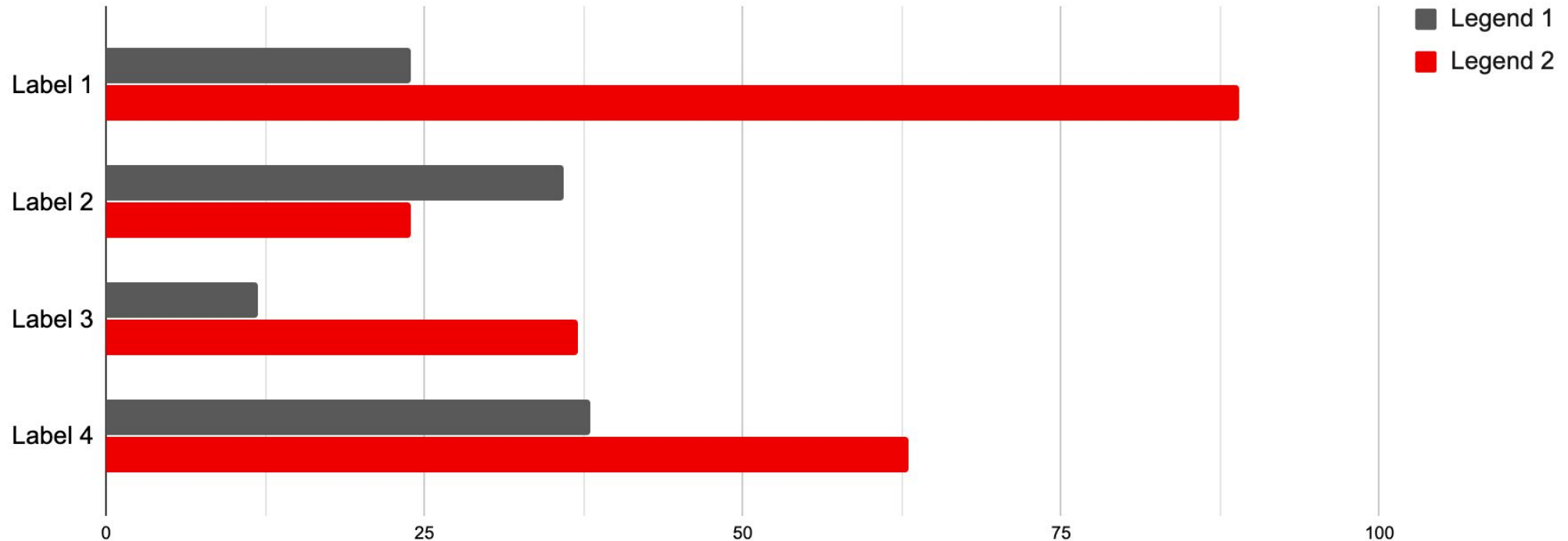
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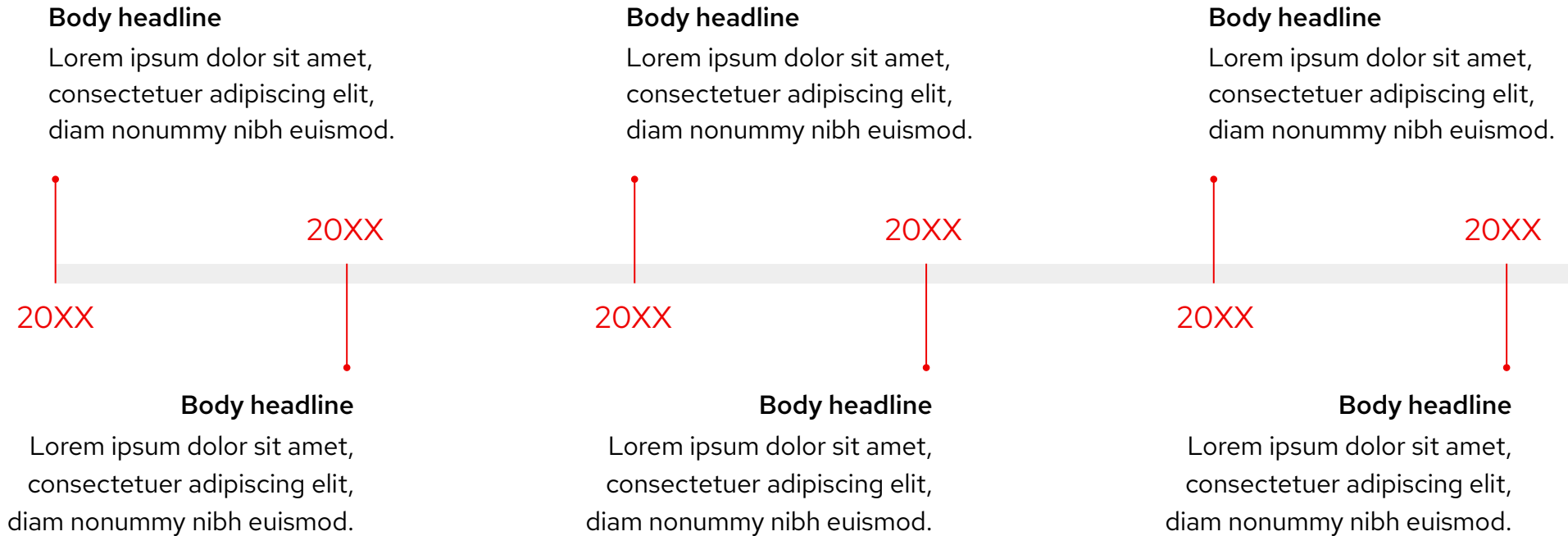
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