

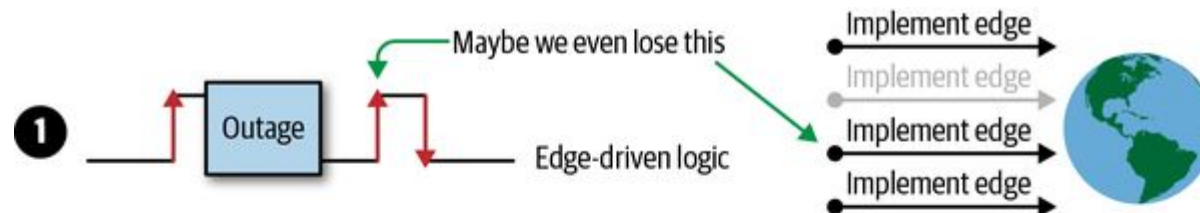
# What we'll discuss today

## ReplicaSets: The Original Operators

- Kubernetes Controllers: Edge vs Level
- Labels and Selectors
- Understanding ReplicaSets
- Primary and Secondary Resources
- ReplicaSet Source Code Explore

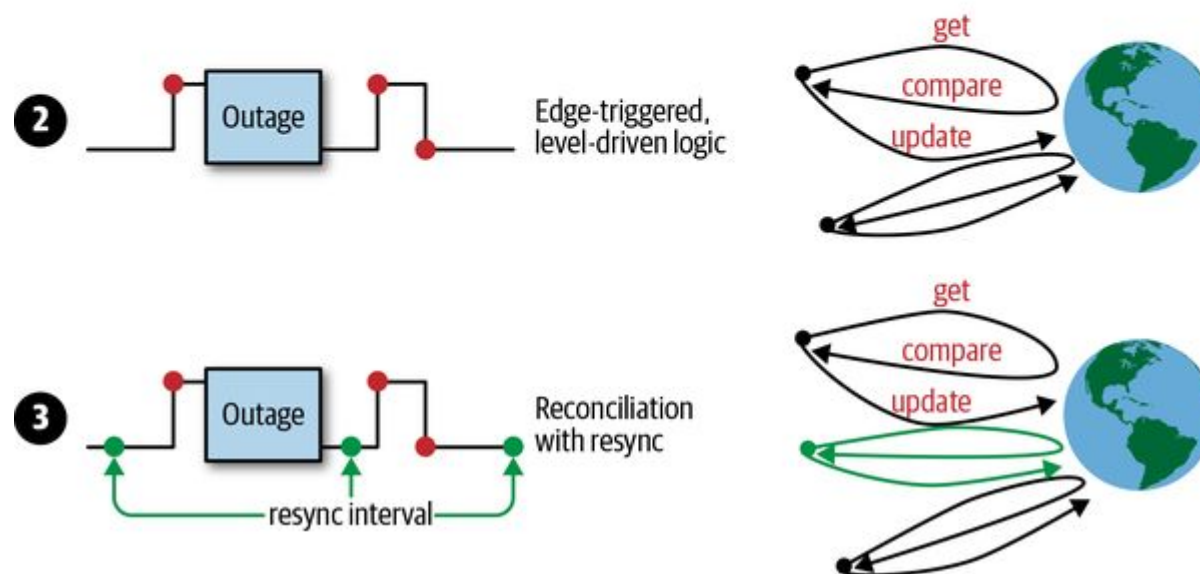
## Edge Driven

- ▶ at the point in time the state change occurs a handler is triggered



## Level Driven

- ▶ state is checked at regular intervals and if certain conditions are met then a handler is triggered



# Labels and Selectors

## Relevance to Operators

### Labels

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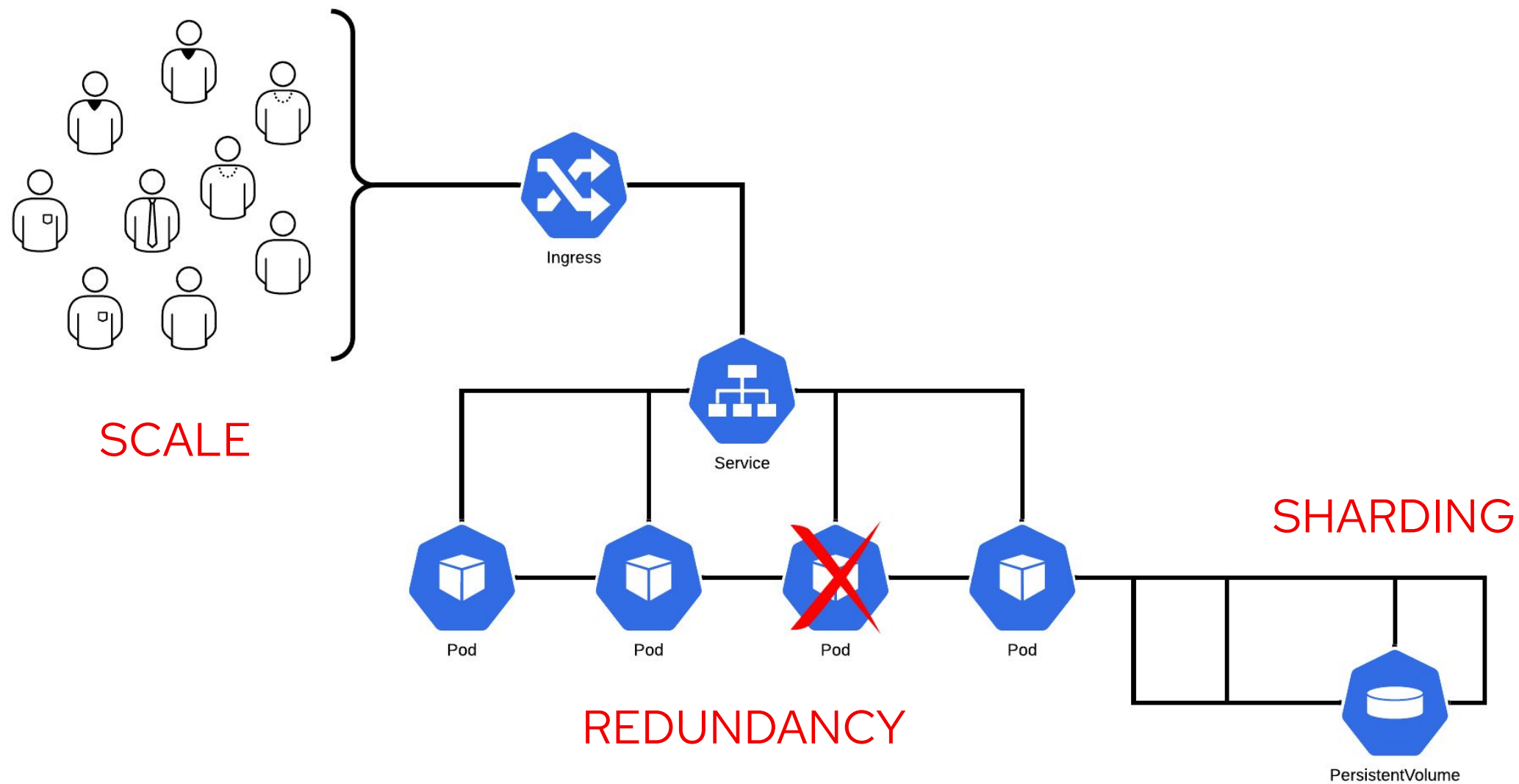
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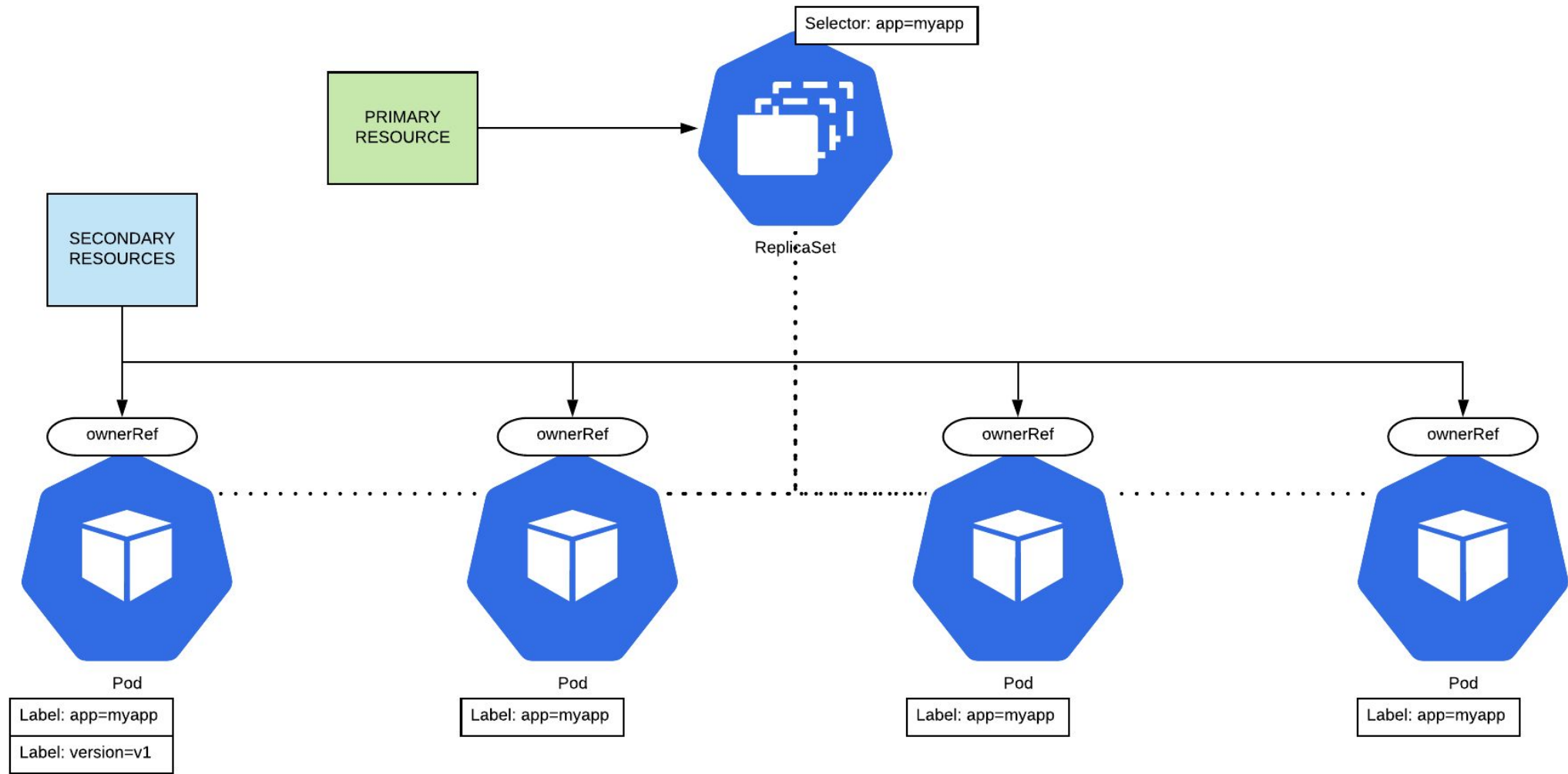
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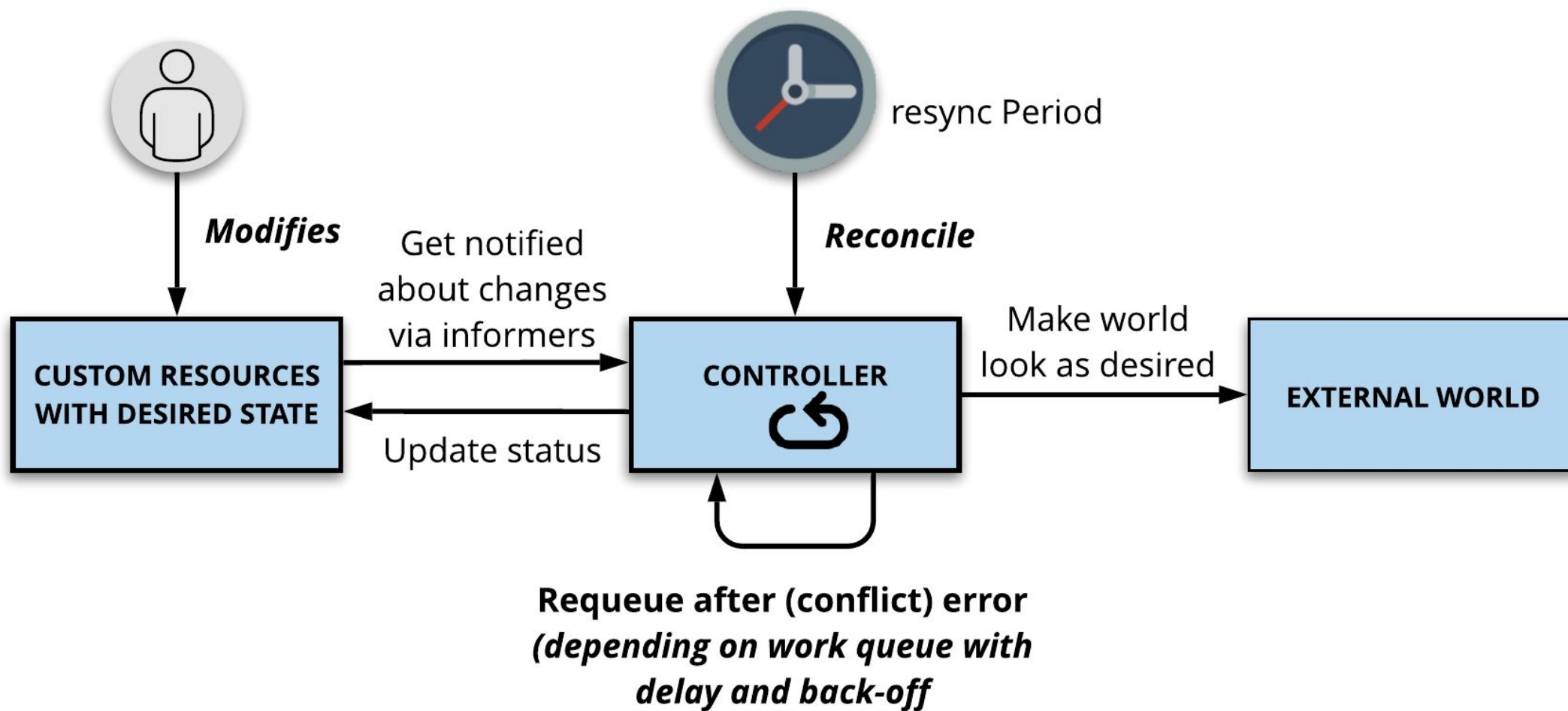
ReplicaSets guarantee the availability of a specified number of identical Pods

# Why Do We Care About ReplicaSets

- ▶ Redundancy
  - Multiple running instances means failure can be tolerated
- ▶ Scale
  - Multiple running instances mean more requests can be handled
- ▶ Sharding
  - Multiple running instances can handle different parts of a computation in parallel









# What we'll discuss today

## Custom Resources: Extending the Kubernetes API

- About CRDs
- Creating CRDs via the CLI and API
- Custom Resource Type Definitions and Validation
- Versioning/Upgrading of CRDs

# What we'll discuss today

## Real-World Operators: Knowledge Codified

- etcd
- Prometheus
- Vault
- MongoDB
- MySQL

# What we'll discuss today

## Tour of the Operator-SDK

- Operators from Scratch
- About the Operator-SDK: Go, Ansible, and Helm
- High-Level Workflow and Scaffold
- Exploring the Controller-Runtime Handler and Reconciler

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# Operator-Framework Workshop

automated, effective, and scalable operators

Matthew Dorn  
Principle Engineer

Melvin Hillsman  
Service Reliability Engineer



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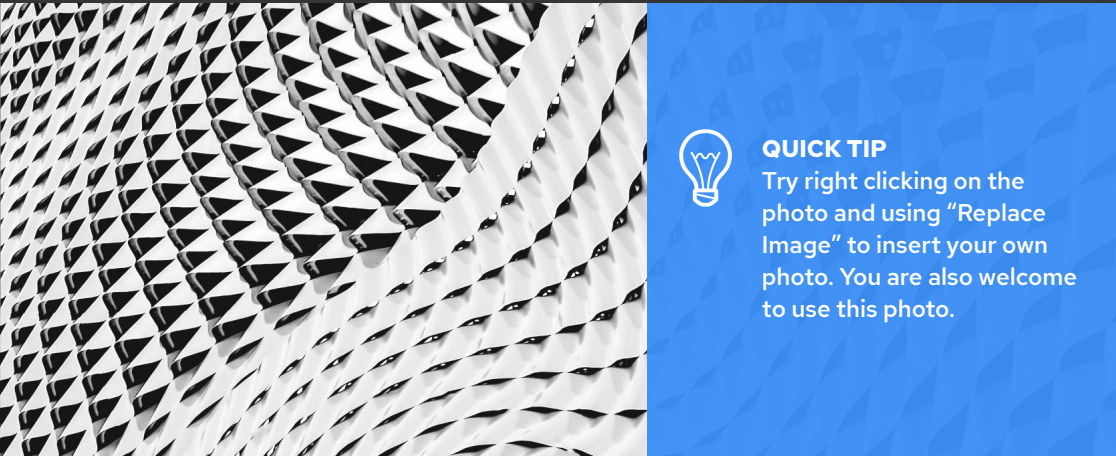
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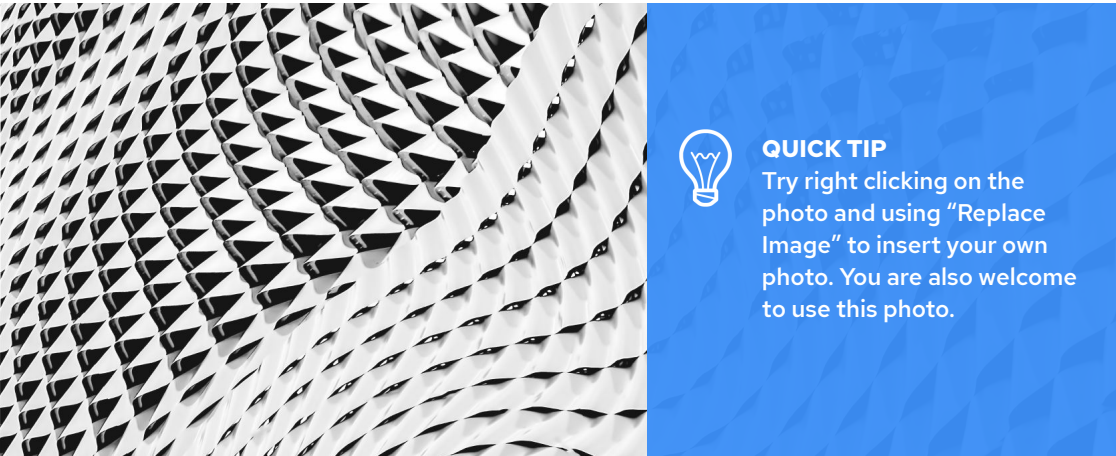
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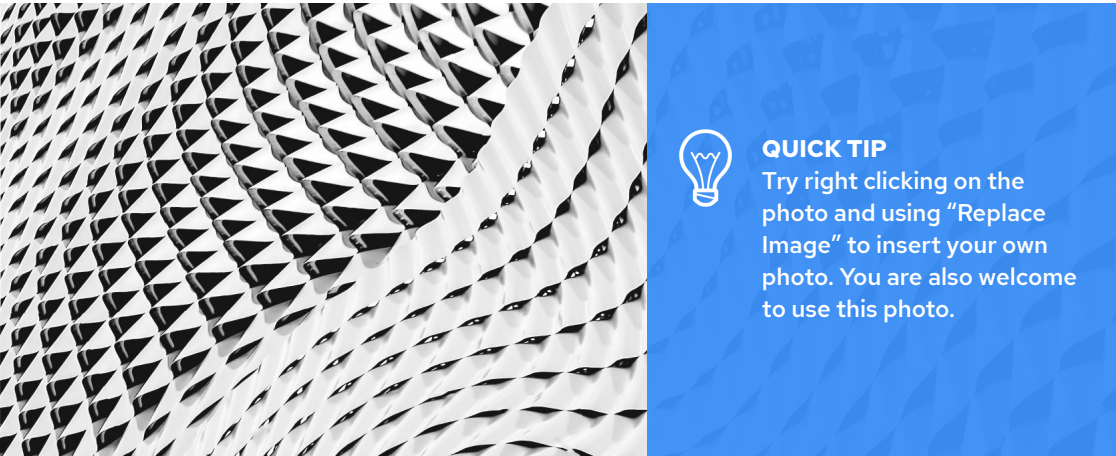
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# This section includes:

Agenda slide templates

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Quote slide templates

# What we'll discuss today

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If no subheading is needed, delete the subheading text, and the content can extend into the lighter shaded area.



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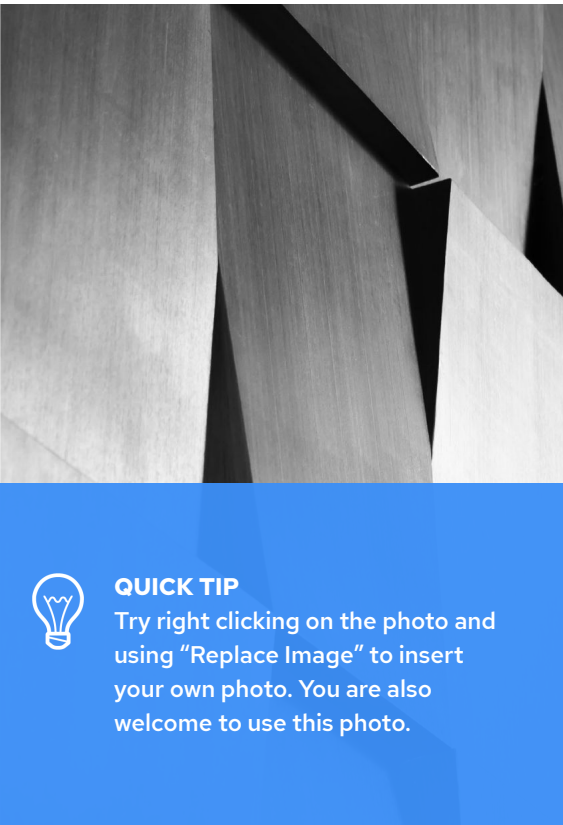
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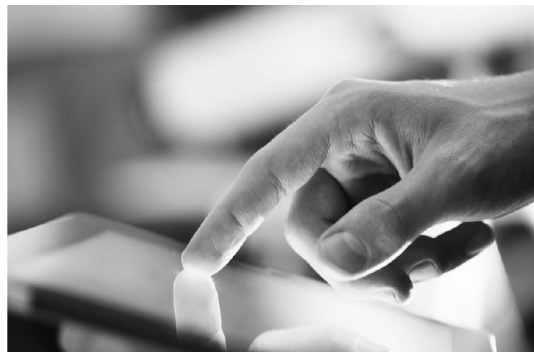
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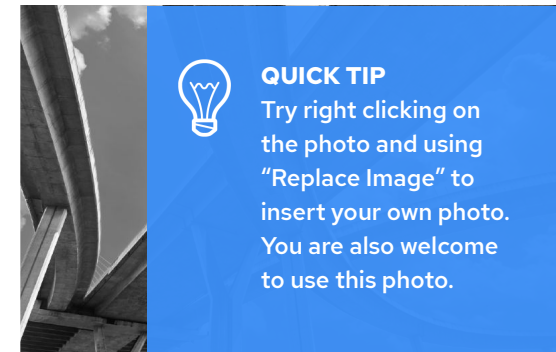
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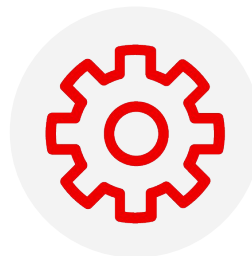


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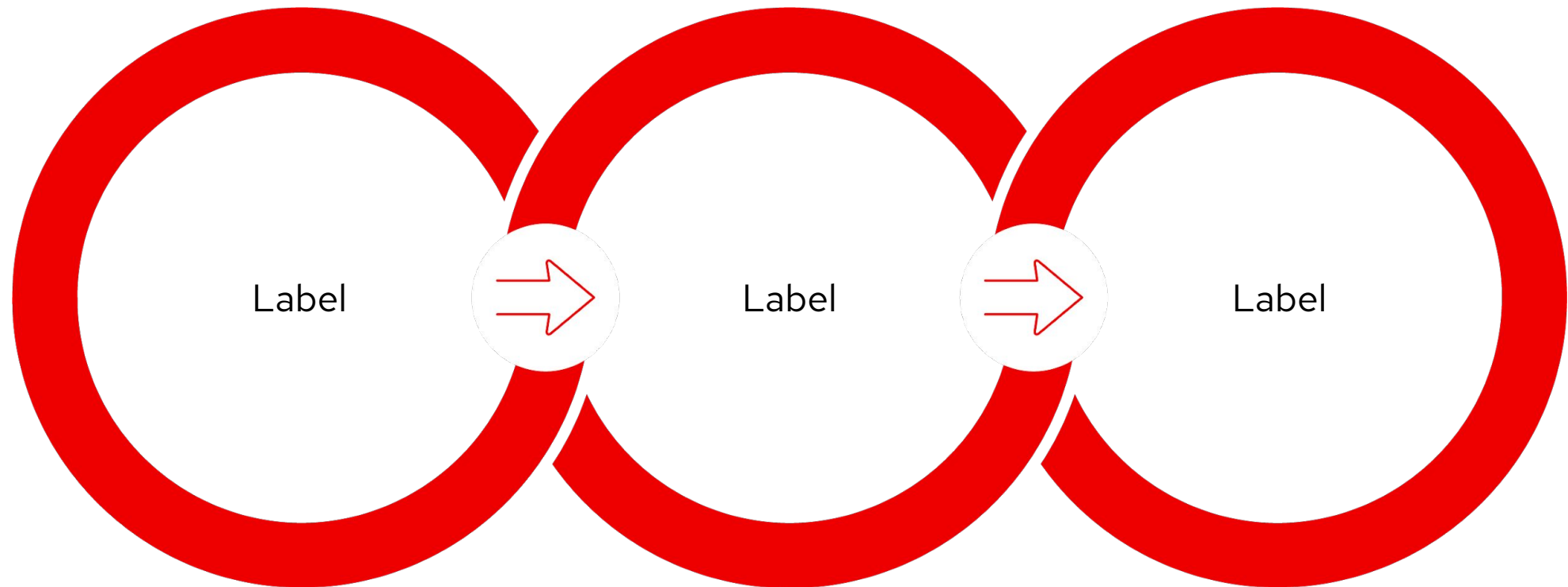


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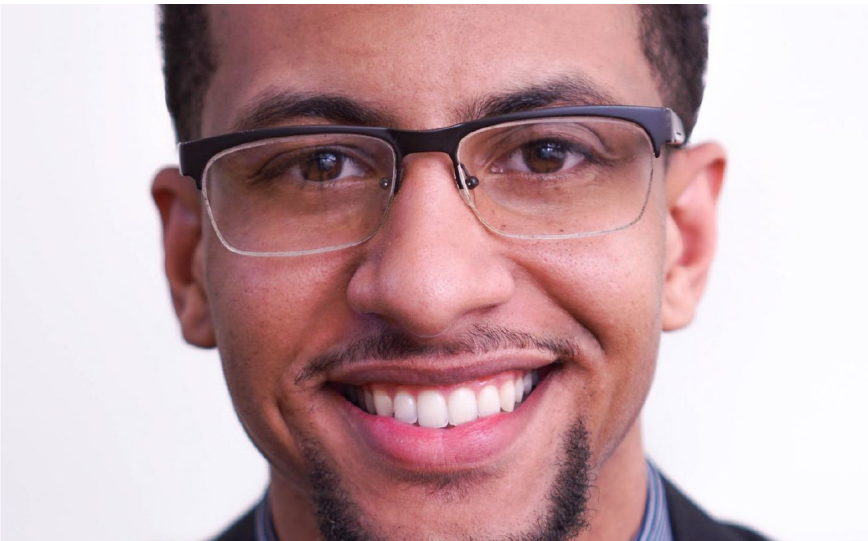
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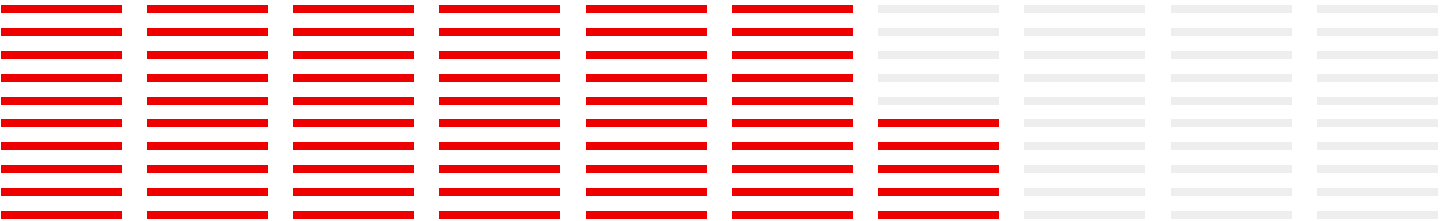
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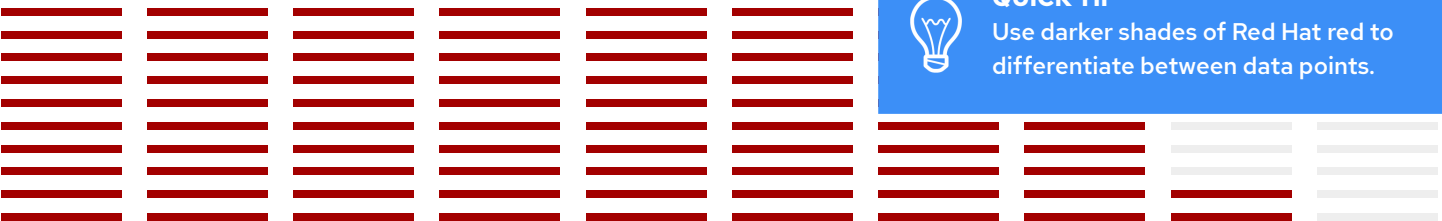
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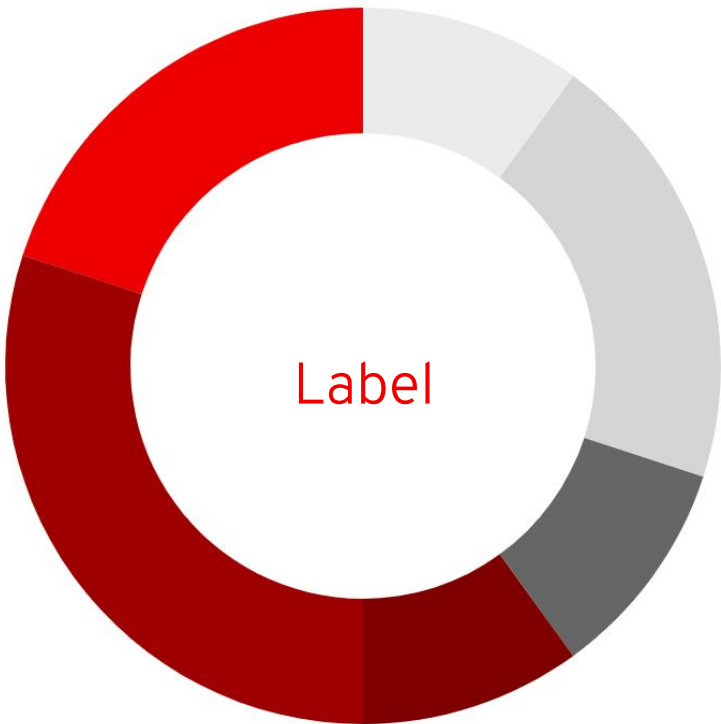
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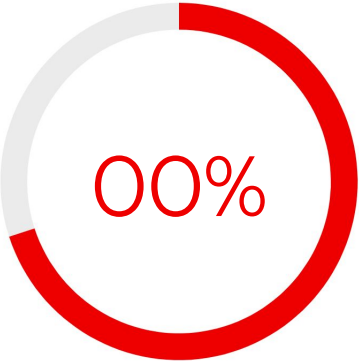
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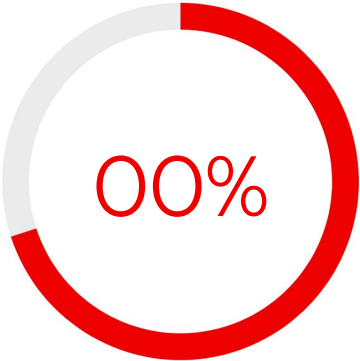
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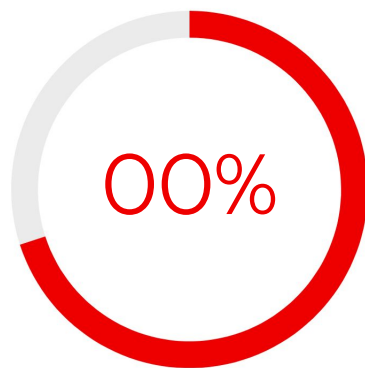


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Select "Open source." The percentage will need to be updated manually.

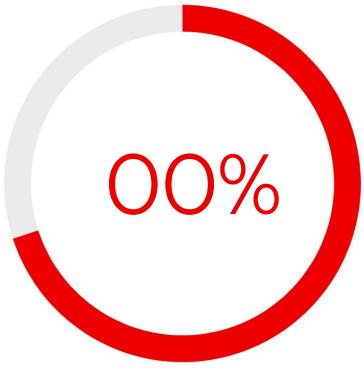
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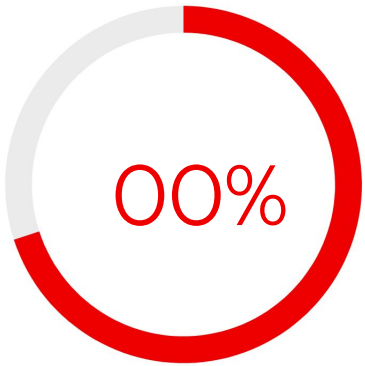
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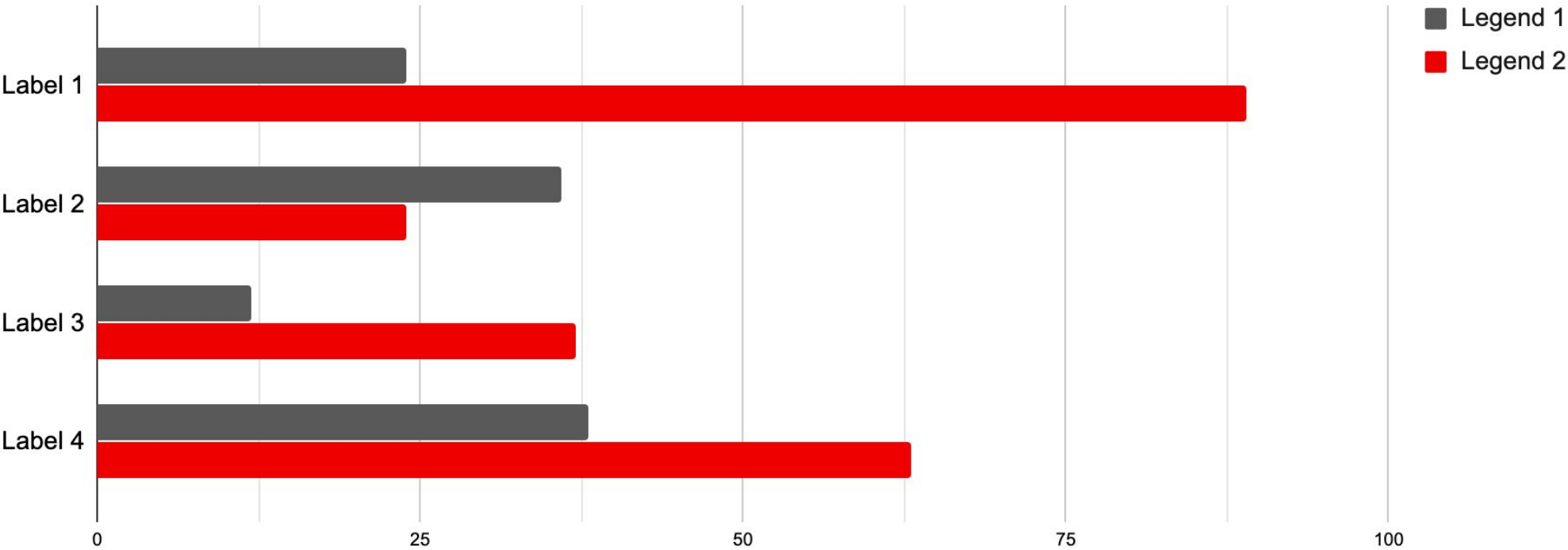
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Chart title





**QUICK TIP**

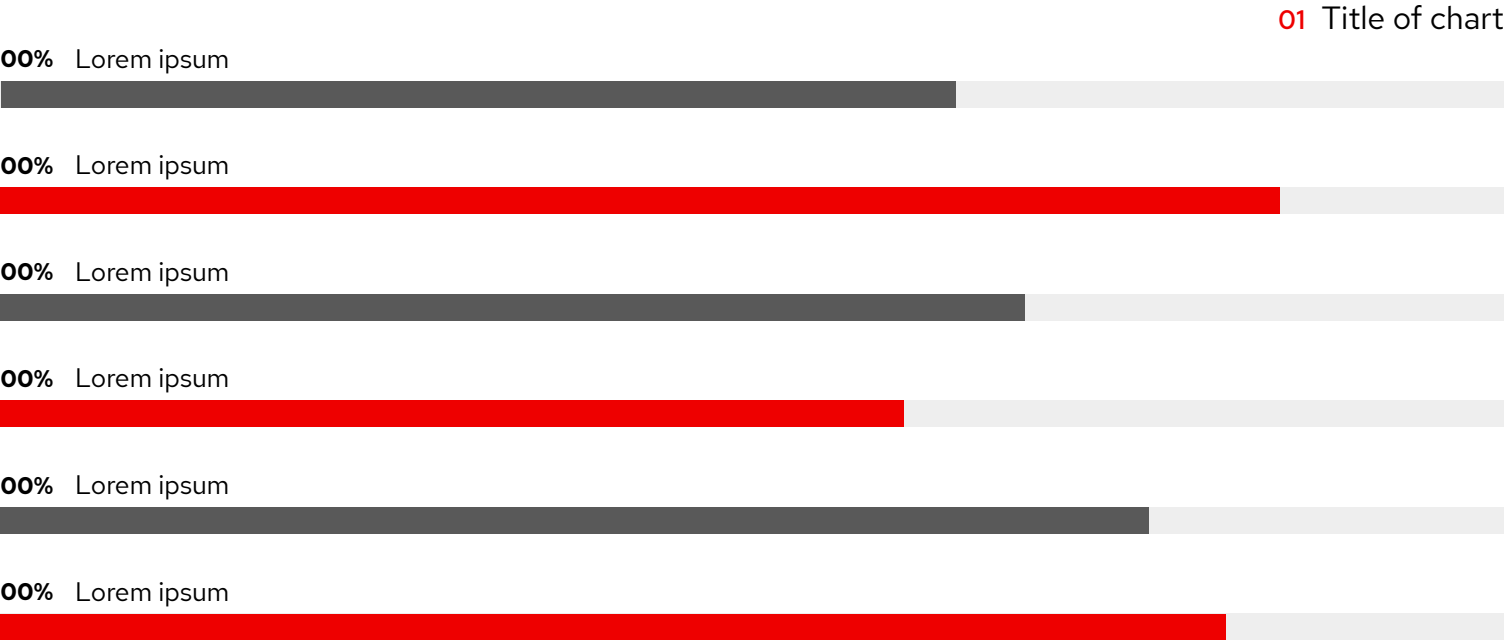
To edit a chart, select it and click the dropdown arrow in the top right. Select "Open source."

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#### QUICK TIP

Use the “Width Scale” in the “Size & Position” pane of the format options panel to adjust the percentage of the bar.

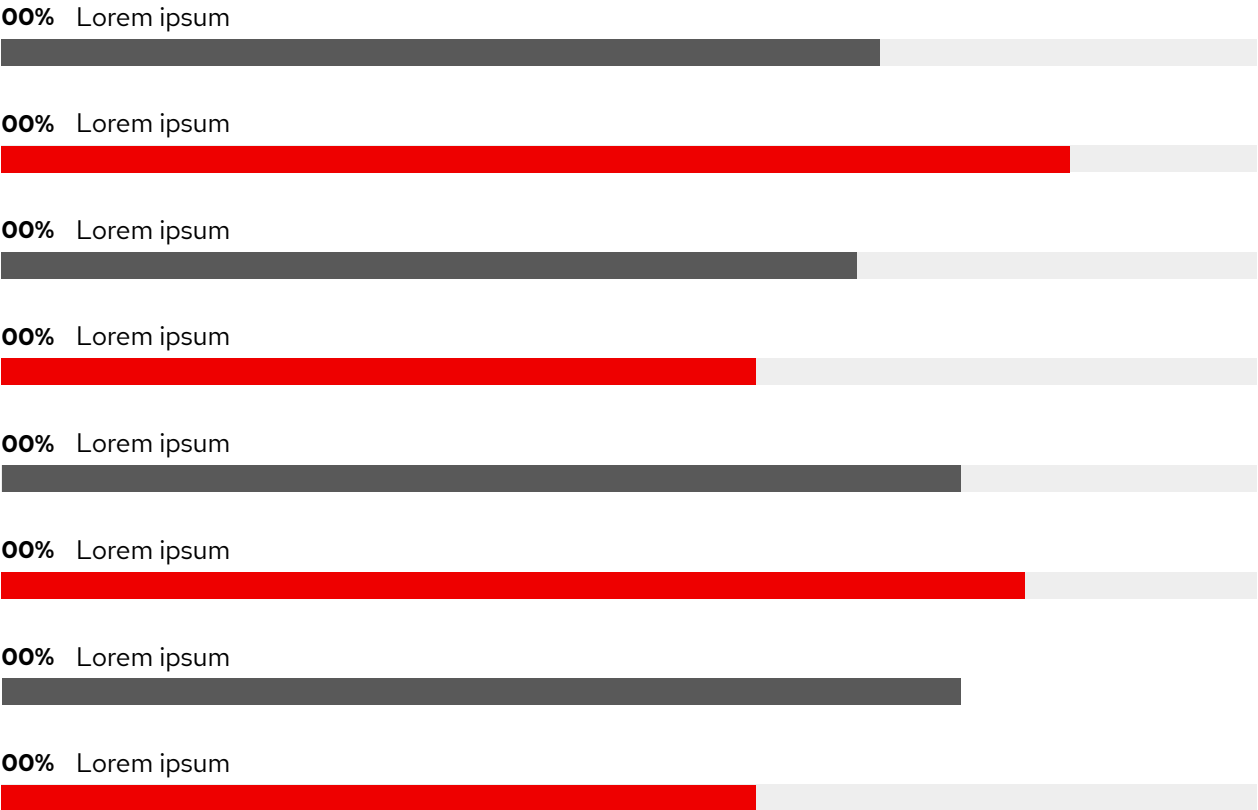
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01 Title of chart



**QUICK TIP**  
Use the “Width Scale” in the “Size & Position” pane of the format options panel to adjust the percentage of the bar.

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01 Title of table

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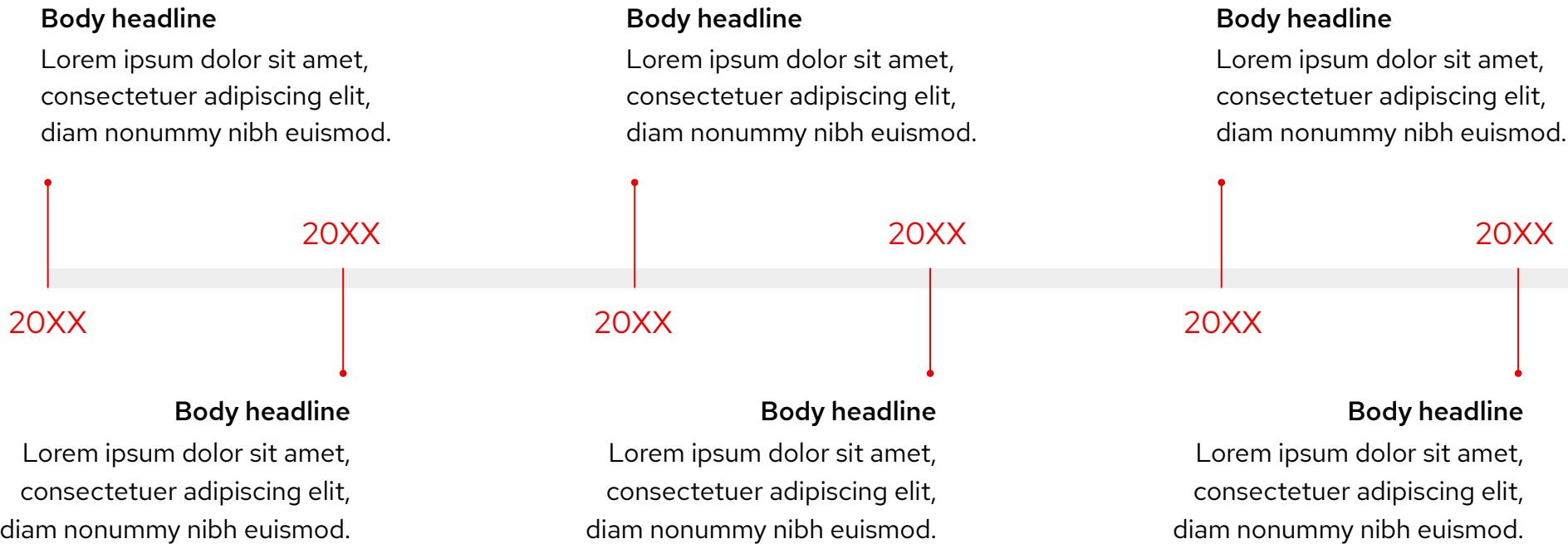
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#### QUICK TIP

Try right clicking on the photo and using "Replace Image" to insert your own photo. You are also welcome to use this photo.



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