

Implementing Microsoft Windows Always On VPN

Always On VPN Overview



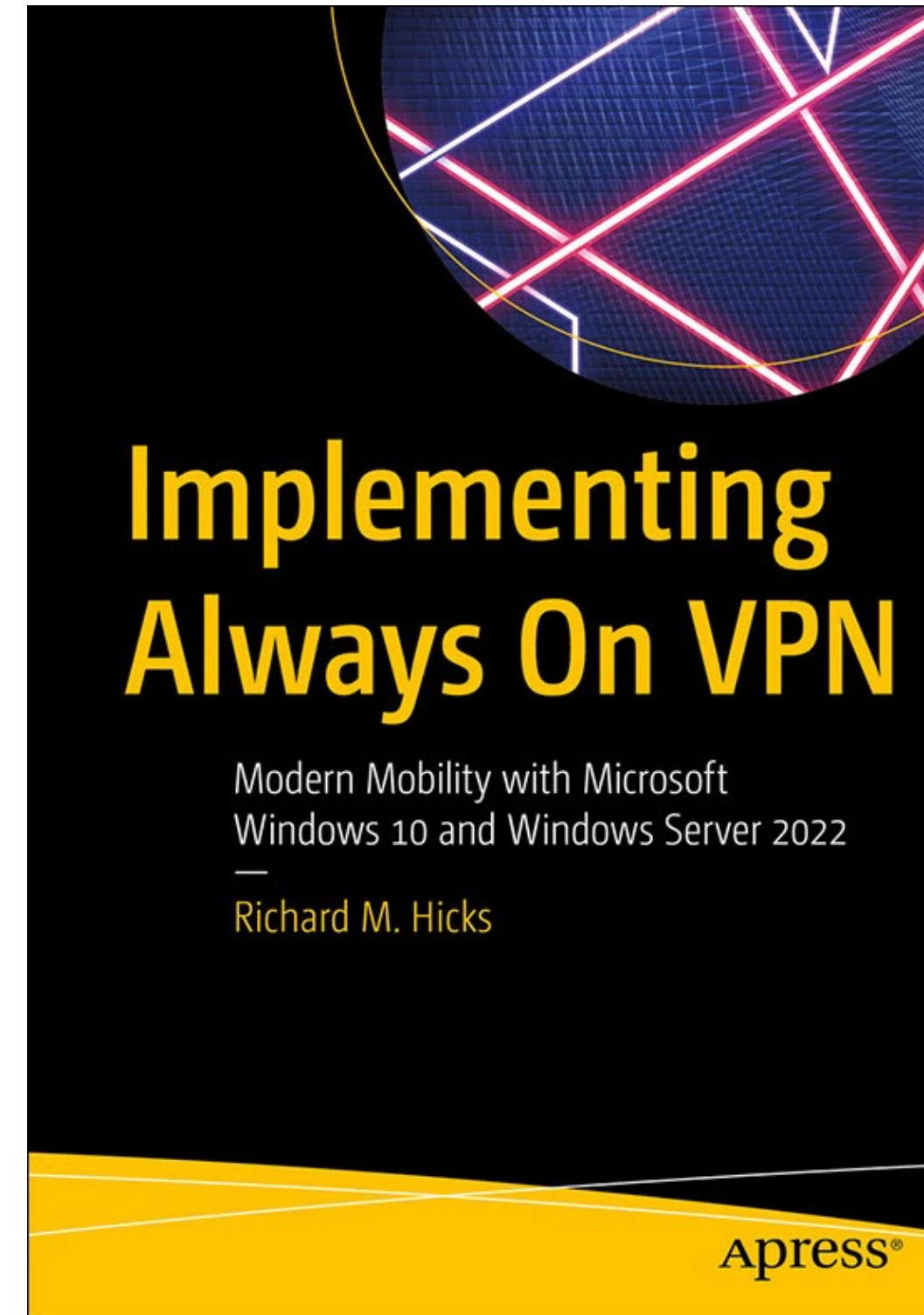
Richard Hicks

Richard M. Hicks Consulting, Inc.

@richardhicks www.richardhicks.com



aovpnbook.com



Overview



Always On VPN Overview

Overview

- What is Always On VPN?
- What about DirectAccess?
- Infrastructure requirements
- Management and cloud integration



What is Always On VPN?



Secure Remote Access



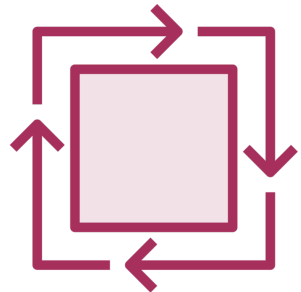
Enterprise Mobility



Essential service



Productivity



Endpoint management



Visibility and control



Always On VPN

Seamless

Transparent

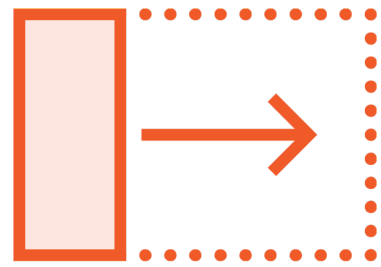
Always On



What About DirectAccess?



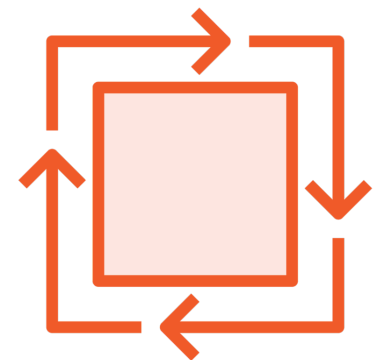
DirectAccess



Windows Server 2022 and Windows 11



No feature updates since 2012



Microsoft no longer investing in DirectAccess



Demise of DirectAccess

DirectAccess

Domain joined servers and clients

Enterprise Edition only

Group policy management

Active Directory only

Always On VPN

Domain-join optional

Enterprise or Professional

Microsoft Endpoint Manager

Active Directory or Azure AD



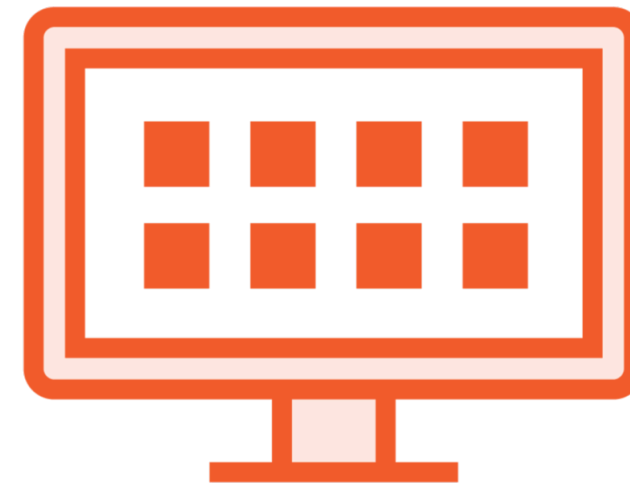
Additional Features



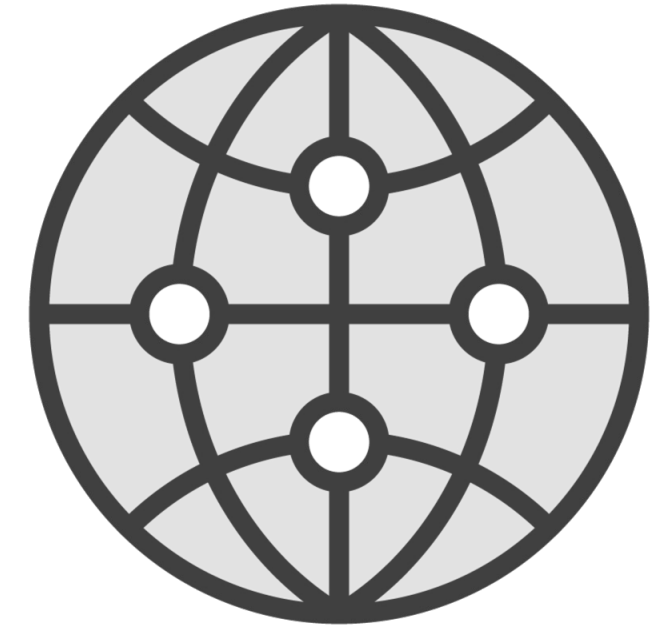
IPv6 Optional



No More NLS



**Simplified
Outbound
Management**



**Infrastructure
Independent**



Infrastructure Requirements



Infrastructure Requirements

VPN Server

Windows Server RRAS

Cisco, Palo Alto, Fortinet, etc.

RADIUS Server

Windows Server NPS

**Cisco ISE, PulseSecure SBR,
FreeRADIUS, etc.**



Client Requirements



Client Requirements

Windows Client
Windows 10 or 11
Pro or Enterprise

Domain Join
Optional
Hybrid Azure AD
Native Azure AD

Management
MEM/Intune



Provisioning and Management



Provisioning and Management



**Microsoft Endpoint
Manager/Intune**



SCCM



PowerShell

Cloud Integration





Cloud integration

Identity

- Native Azure AD
- On-premises Active Directory

Conditional Access

Proactive remediation

Summary



Always On VPN Overview

Summary

- Always On VPN overview
- DirectAccess
- Infrastructure requirements
- Management options
- Cloud integration



Up Next:
Infrastructure Planning



Demo



Creating an Always On VPN Device Configuration Profile in Intune



Summary



Deploy an Always On VPN Profile

Summary

- Device Configuration profile
- Custom template
- Deployed the profile for all users
- Assigned profile to VPN users



Text Chunking



Text Chunking: Two Items

Talking point one

**Be concise and keep the text
to four lines or fewer**

Talking point two

**Be concise and keep the text
to four lines or fewer**



Text Chunking: Three Items

Talking point one

Be concise and keep
the text to four lines
or fewer

Talking point two

Be concise and keep
the text to four lines
or fewer

Talking point three

Be concise and keep
the text to four lines
or fewer



Text Chunking: Four Items

**This is the first talking point
that should be kept to three
lines or fewer**

**This is the second talking point
that should be kept to three
lines or fewer**

**This is the third talking point
that should be kept to three
lines or fewer**

**This is the fourth talking point
that should be kept to three
lines or fewer**



Text Chunking: Five Items

Talking point one

Keep the text to three
lines or fewer

Talking point two

Keep the text to three
lines or fewer

Talking point three

Keep the text to three
lines or fewer

Talking point four

Keep the text to three
lines or fewer

Talking point five

Keep the text to three
lines or fewer



Text Chunking: Six Items

Thing 1

Thing 2

Thing 3

Thing 4

Thing 5

Thing 6



Image Chunking



Icon or Image Chunking: Two Items



Late at night

Some information about this graphic goes here and four lines or fewer is best



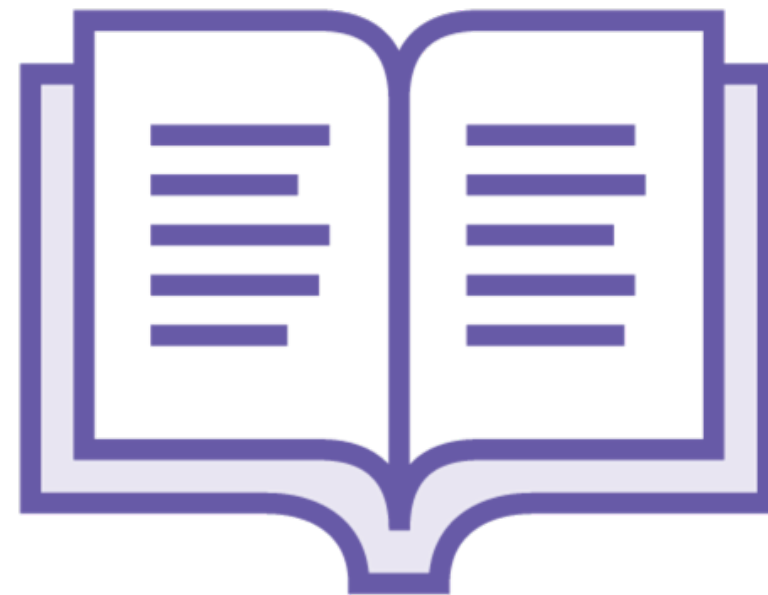
Source of inspiration

Some information about this graphic goes here and four lines or fewer is best

Icon or Image Chunking: Three Items



Item to remember
Some information
goes here; three lines
or fewer is best



Book concept
Some information
goes here; three lines
or fewer is best



Video proposal
Some information
goes here; three lines
or fewer is best



Icon or Image Chunking: Four Items



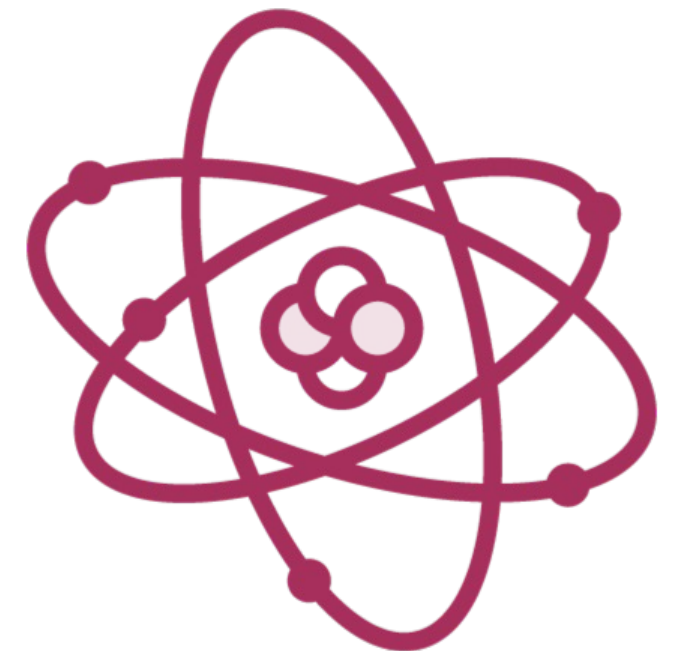
Achieve goal



Set alarm



Study hard

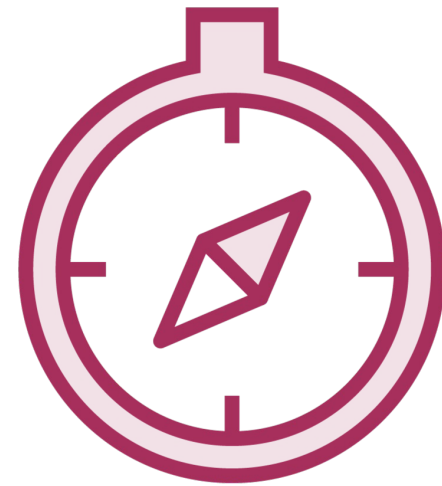


Analyze data

Icon Only Image Chunking: Six Items



Smart watch



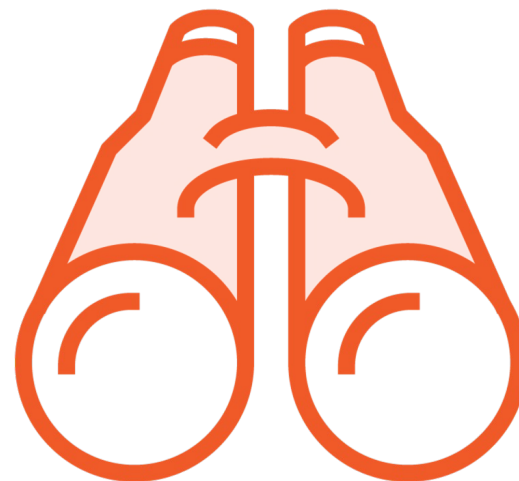
Compass



Digital camera



Trail map



Binoculars



Faithful companion

Icon or Image Chunking: Two Items



Partner pairing

Some information about this graphic goes here and four lines or fewer is best



Brainstorming ideas

Some information about this graphic goes here and four lines or fewer is best



Circle Icon or Image Chunking: Two Items



Partner pairing



Brainstorming ideas



Icon or Image Chunking: Three Items



Get together



Phone a colleague



Write the code



Circle Image Chunking: Four Items



Write a script



Record audio



Create a demo

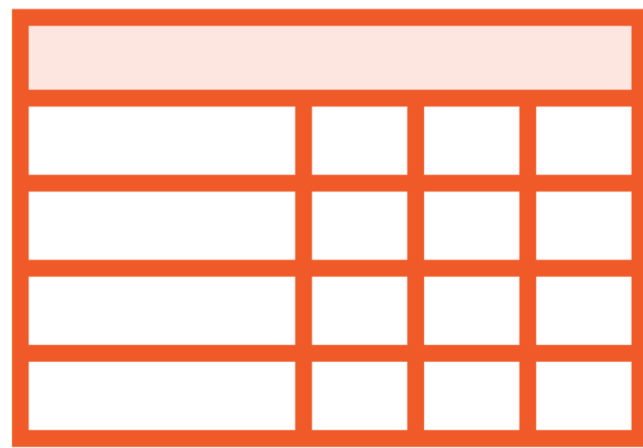


Review it



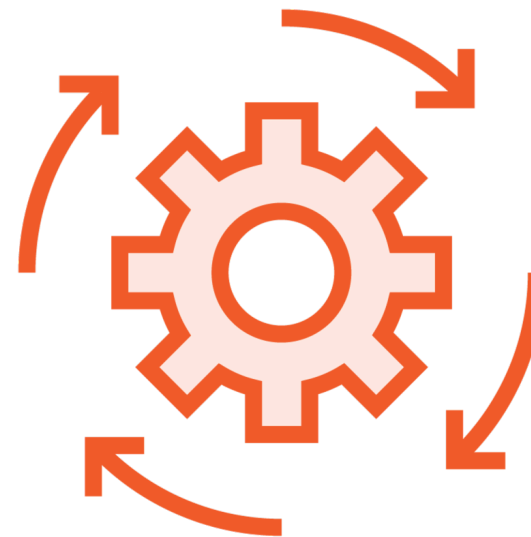
Description Text and Three Item Icons

Add a short bit of description text in this area. Keep it short and simple.



Analysis

**Add a description here
on these lines. Keep it
short and simple.**



Process

**Add a description here
on these lines. Keep it
short and simple.**



Work List

**Add a description here
on these lines. Keep it
short and simple.**



Bullet Lists

- _____
- _____
- _____
 - _____
 - _____
- _____



Animation built in
Bullet alternative
Sentence fragments
List of things
Procedure list
Talking points

Title or Relevant Graphic



Title or
Relevant
Graphic

Animation built in

Room for a bit more text

Use this layout for:

- Longer sentence fragments
- List of things
- Procedure list
- Talking points





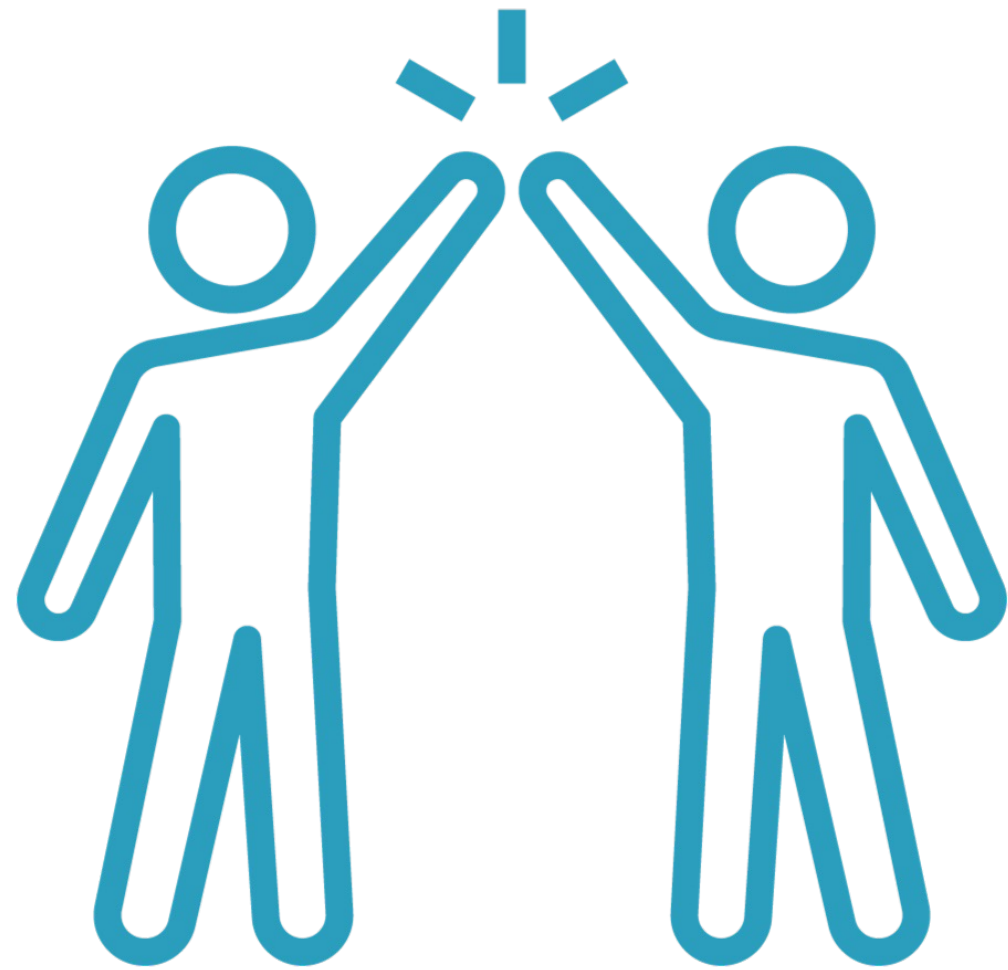
Animation built in

Room for a bit more text

Use this layout for

- Longer sentence fragments
- List of things
- Procedure list
- Talking points

Title | Image Left | Bullets Right



Animation built in

Room for a bit more text

Use this layout for

- Longer sentence fragments
- List of things
- Procedure list
- Talking points



Cropping the image as a circle

It may be necessary to reposition or scale your photo

- Image must be high-quality and copyright-safe

Text animation is built in





Photo Circle with Text

Works better with photos than with icons

Photos must be high-quality and copyright-safe

Re-center text boxes vertically once text is entered





The main image bleeds off three edges

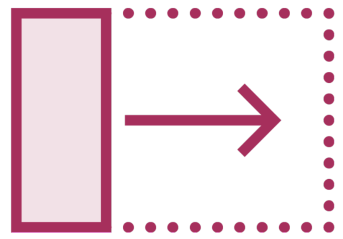
Graphic should fill the entire space

- Graphic must be high-quality and copyright-safe

Text animation is built in



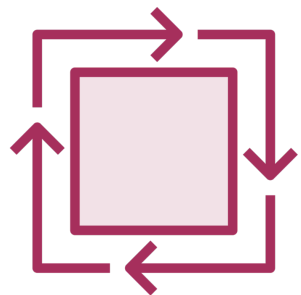
Four Item List with Icons



An image chunking option for when you have longer text



Be concise and keep each bullet to 2 lines or fewer



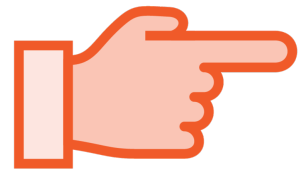
Add relevant icons on the left for each text item on the right



An alternative to bullets



Five Item List with Icons



Be concise and limit the text to one line



Sometimes four of these items aren't enough



Be concise and limit the text to one line



Sometimes four of these items aren't enough



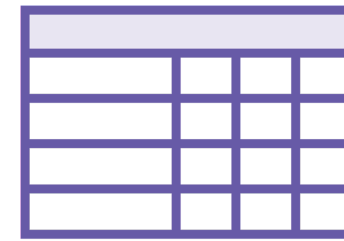
Be concise and limit the text to one line



Two Column Six Item List with Icons



Program



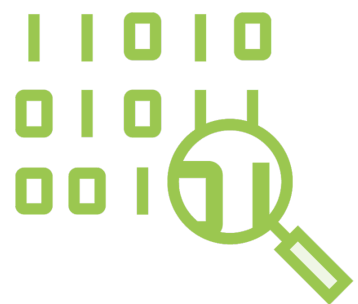
Export all that data



Take a break and read



Write up a case study



Check the data



It's all under control

Text Left | Three Item Chunking

Use this area for description text on your subject

- Bullet point 1
- Bullet point 2
- Bullet point 3

Describe a little more



Short description one. Keep this to three lines or less.



Short description two. Keep this to three lines or less.



Short description three. Keep this to three lines or less.



Text Right | Three Item Chunking



Short description one. Keep this to three lines or less.



Short description two. Keep this to three lines or less.



Short description three. Keep this to three lines or less.

Use this area for description text on your subject

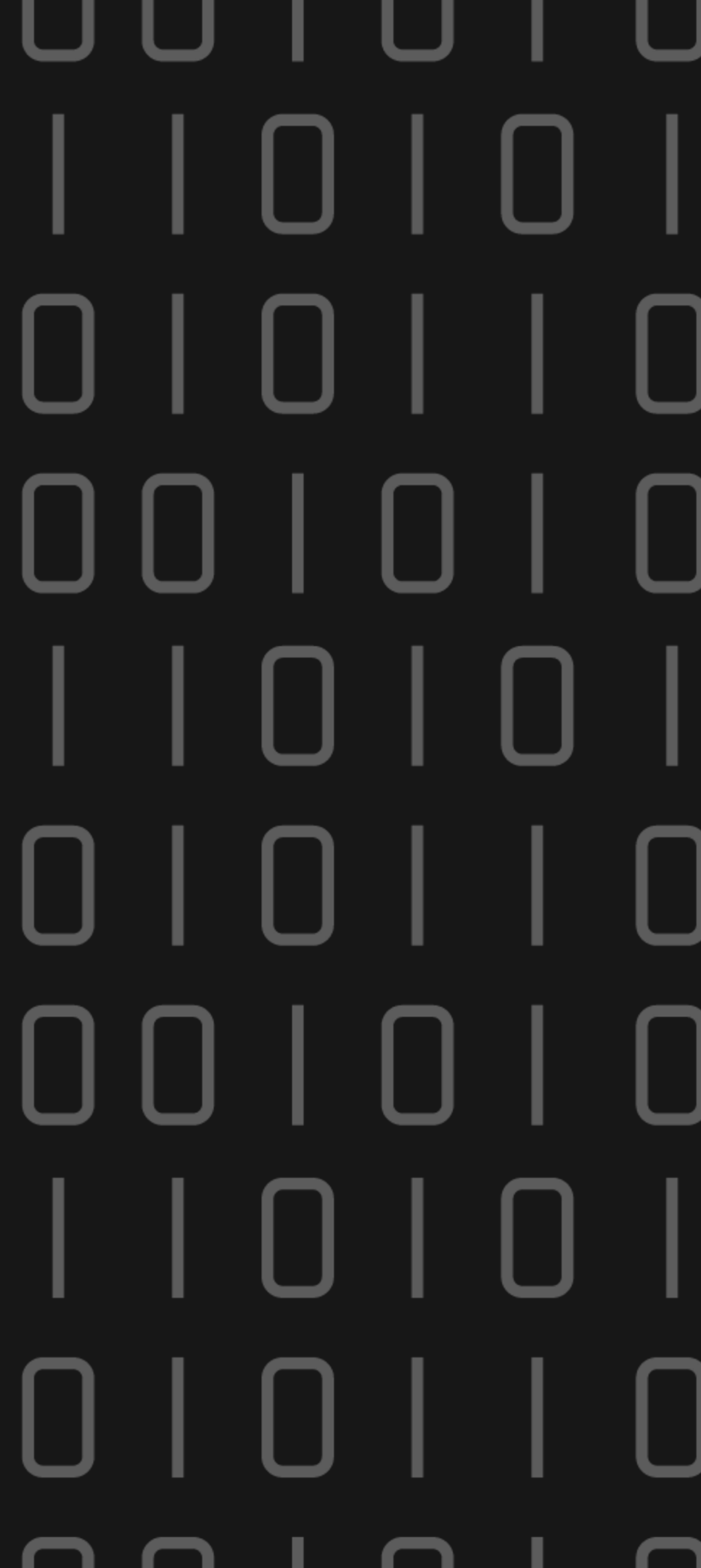
- Bullet point 1
- Bullet point 2
- Bullet point 3

Describe a little more



Code

Refer to [Author Kit](#) for additional guidance



Code Snippet | Light

```
<div class="row carousel-indicators">  
  <div style="background-color:red;" class="col-md-4" data-target="#homeCarousel"  
data-slide-to="0" class="active">  
  </div>  
  <div style="background-color:green;" class="col-md-4" data-target="#homeCarousel"  
data-slide-to="1" class="active">  
  </div>  
</div>
```



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  </div>
</div>
```

Code Snippet with Info | Light

Information about the code above. Code should be in Roboto Mono font, while slide title and supplemental text should remain in PS TT Commons.

```
// Put code on this side
```

```
let website = {  
  name: 'Pluralsight',  
  url: 'https://pluralsight.com'  
};
```

```
function makeUrl() {}
```

```
let sites = []  
sites.push(website)
```

```
console.log(sites[0].name)
```

◀ **Line up with these notes**

◀ **Create an object**

◀ **Define a function**

◀ **Add the object to an array**

◀ **Log the site name to the console**

Code Snippet | Dark

```
<div class="row carousel-indicators">  
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◀ Line up with these notes

◀ Create an object

◀ Define a function

◀ Add the object to an array

◀ Log the site name to the console

Title and Tab for Filename

Add a line of text here if needed

Filename.code

```
<div class="row carousel-indicators">
  <div style="background-color:red;" class="col-md-4" data-target="#homeCarousel"
data-slide-to="0" class="active">
  </div>
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data-slide-to="1" class="active">
  </div>
</div>
```


Title and Two Tabs

Filename.here

```
<div style="background-color:red;"  
  class="col-md-4" data-  
  target="#homeCarousel" data-slide-  
to="0"  
  class="active">  
</div>
```

Filename.here

```
<div style="background-color:red;"  
  class="col-md-4" data-  
  target="#homeCarousel" data-slide-  
to="0"  
  class="active">  
</div>
```

Title and Tab with Output | Vertical

Filename.here

```
<div class="row carousel-indicators">
  <div style="background-color:red;" class="col-md-4" data-target="#homeCarousel" data-slide-to="0" class="active">
  </div>
  <div style="background-color:green;" class="col-md-4" data-target="#homeCarousel" data-slide-to="1" class="active">
  </div>
</div>
```

> Console

Title and Tab with Output | Horizontal

Filename.here

```
<div style="background-color:red;"  
  class="col-md-4" data-  
  target="#homeCarousel" data-slide-to="0"  
  class="active">  
</div>
```

> Code output or other items

Filename.here

Title Left and Tab
for Filename

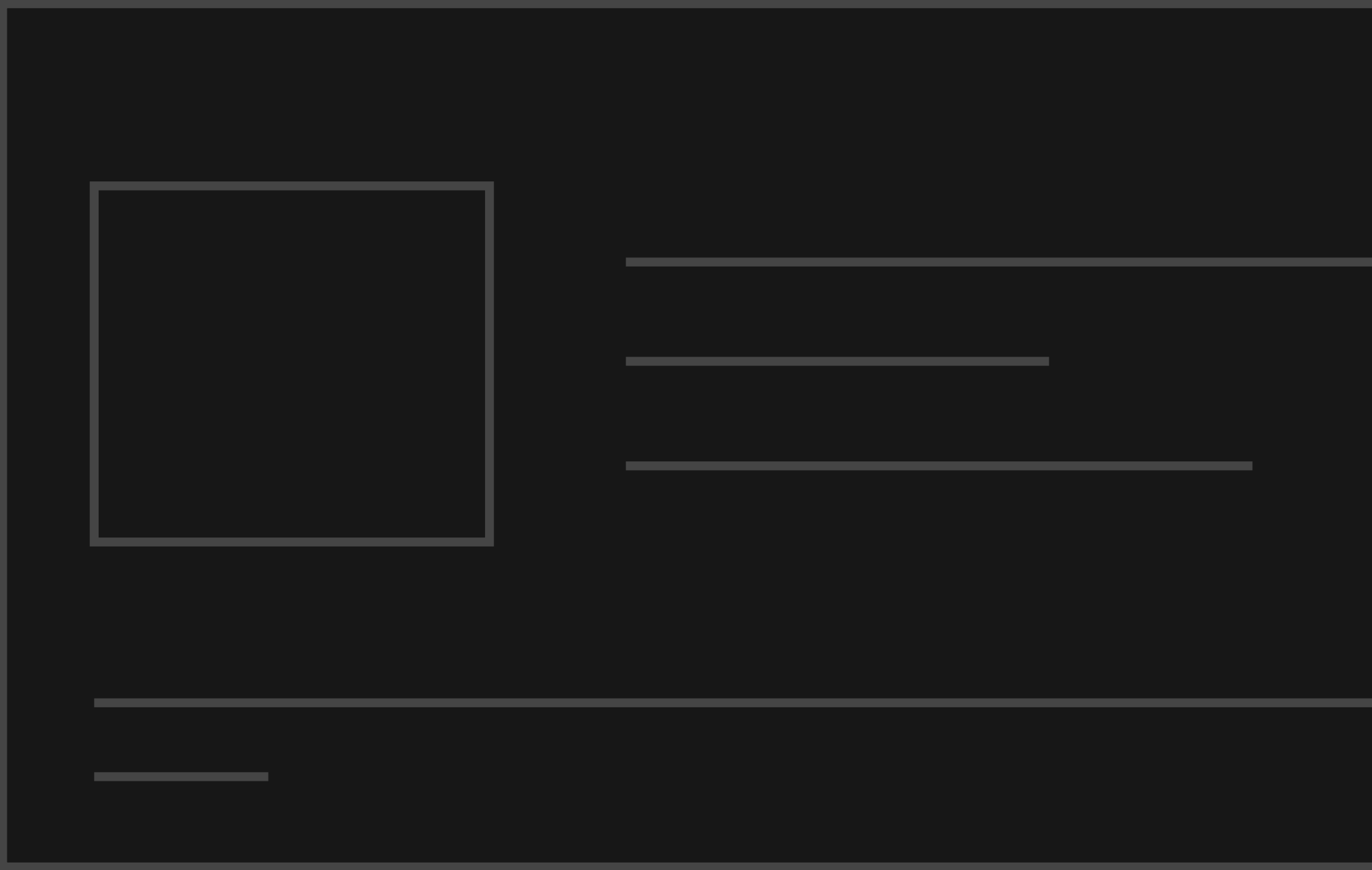
```
<div class="row carousel-indicators">  
  <div style="background-color:red;" class="col-md-4" data-target="#homeCarousel" data-slide-to="0" class="active">  
  </div>  
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  </div>  
</div>
```

Filename.here

```
<div class="row carousel-indicators">
  <div style="background-color:red;" class="col-md-4" data-target="#homeCarousel"
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  </div>
  <div style="background-color:green;" class="col-md-4" data-target="#homeCarousel"
data-slide-to="1" class="active">
  </div>
</div>
```

Citations

Refer to [Author Kit](#) for additional guidance



Citation Option 1

Citation: Author/Source, Title, Link/Short URL



Citation Option 2

Citation: Author/Source, Title, Link/Short URL



More Information

Title of Pluralsight Course

Author Name



Resources Reference in This Course



Microsoft Docs, [Update Management Overview](#)



Stephen Covey, *The 7 Habits of Highly Effective People*



Add relevant icons on the left for each text item on the right



Author/Source, Title, Link/Short URL



Comparison Slides



Comparison: Point-by-Point

Functional group

Configure and administer security

Configure advanced networking

Configure advanced storage

Administer and manage resources

Configure availability solution

Objectives

Manage vSphere storage virtualization

Configure software-defined storage

**Configure vSphere storage
multi-pathing and failover**

**Perform advanced VMFS and NFS
configurations and upgrades**

Configure software-defined storage



Comparison: Column-by-Column

Functional group

Configure and administer security

Configure advanced networking

Configure advanced storage

Administer and manage resources

Configure availability solution

Objectives

Manage vSphere storage virtualization

Configure software-defined storage

Configure vSphere storage
multi-pathing and failover

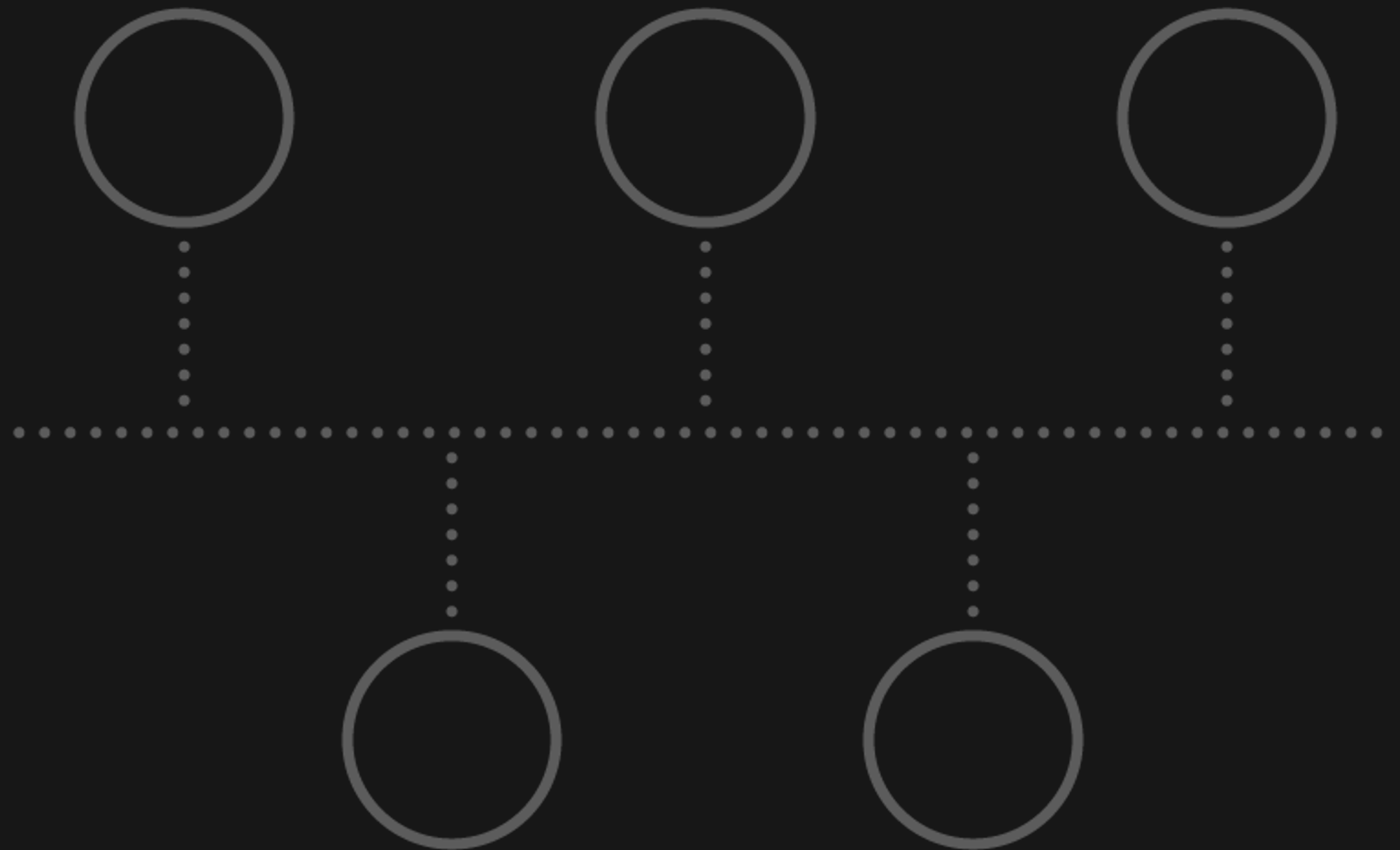
Perform advanced VMFS and NFS
configurations and upgrades

Configure software-defined storage

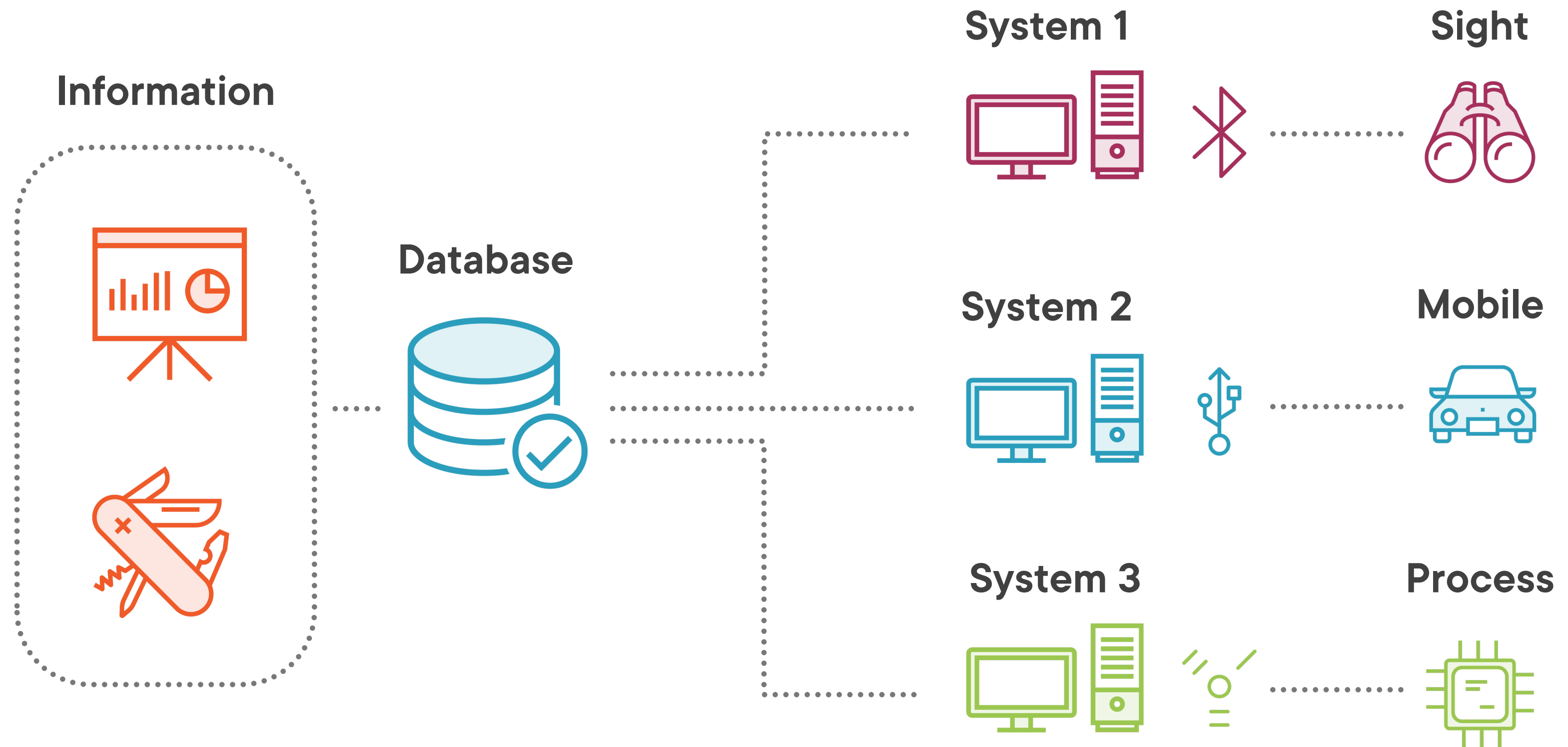


Diagrams

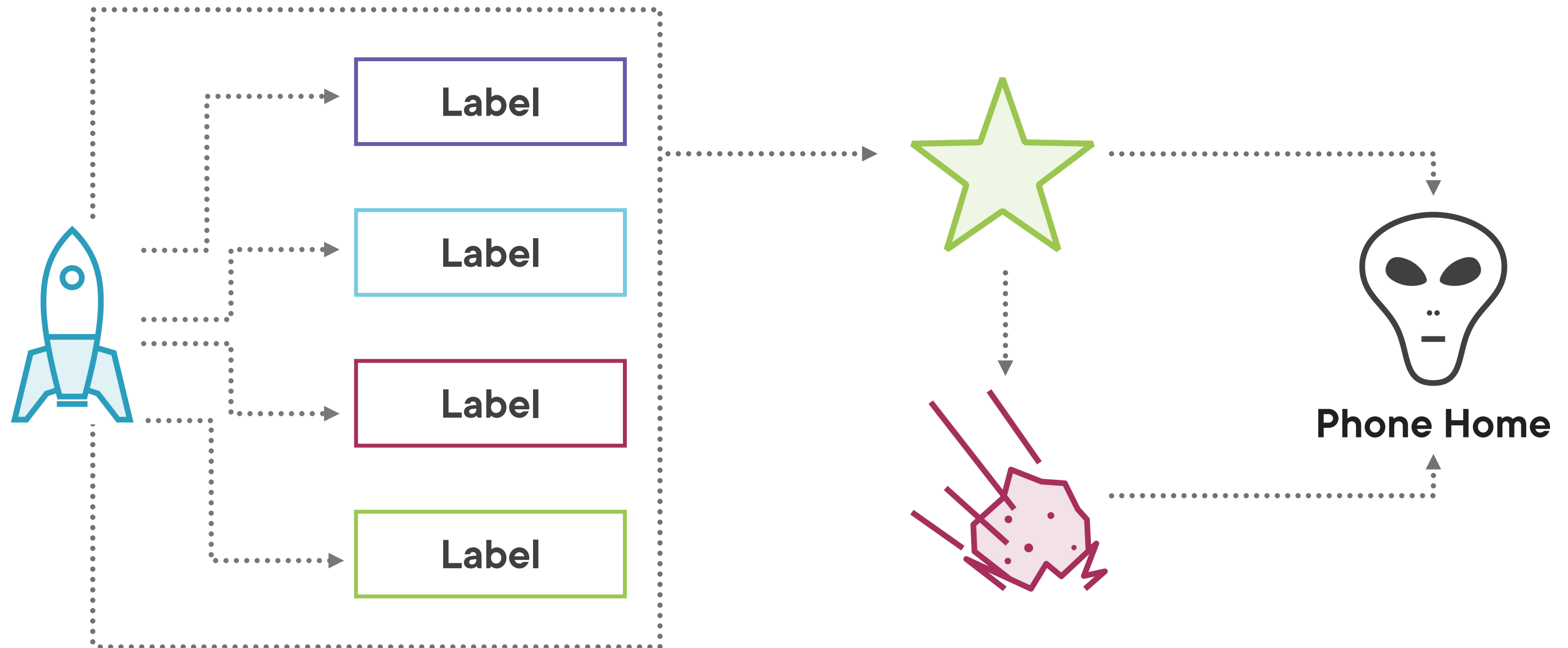
Refer to [Author Kit](#) for additional guidance

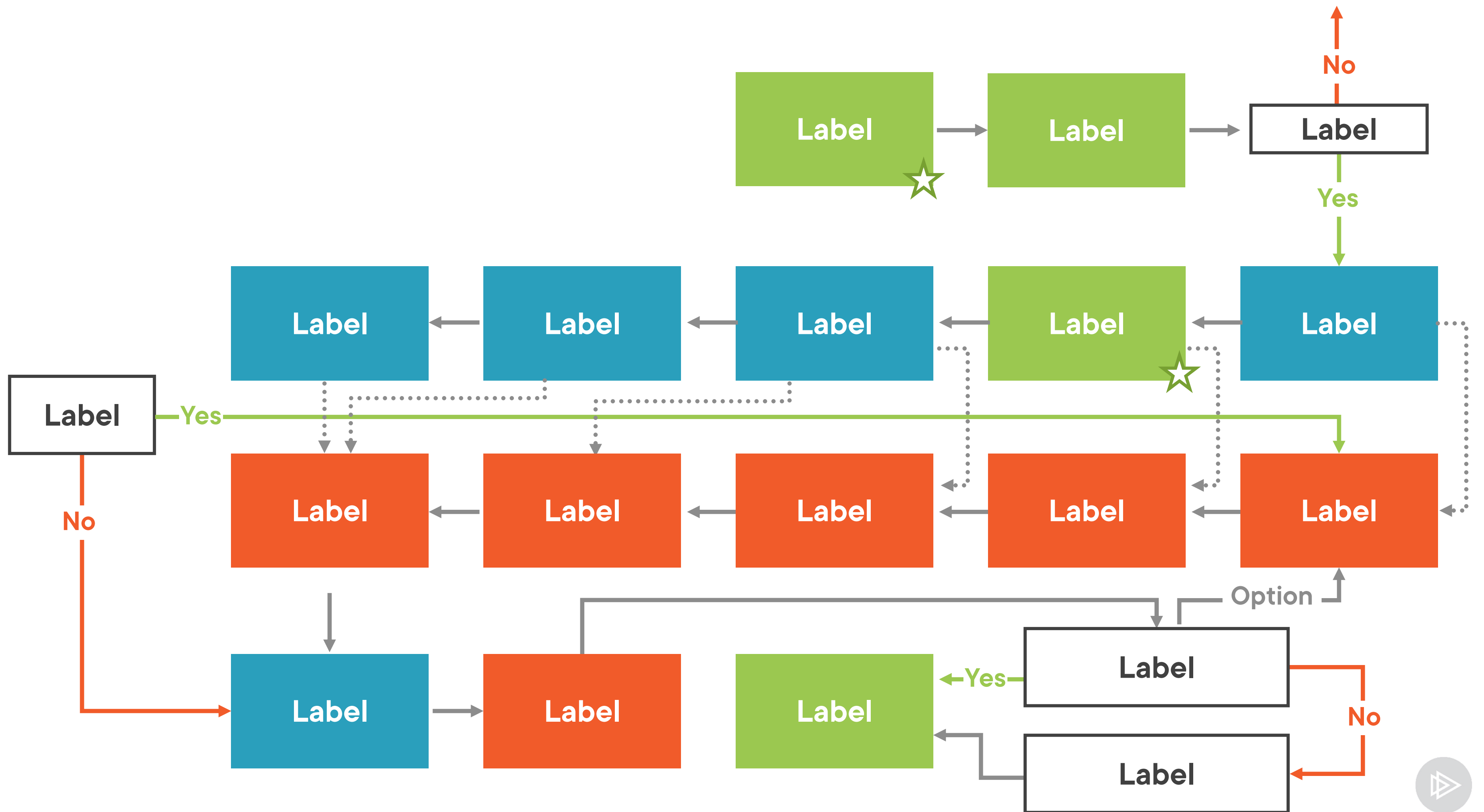


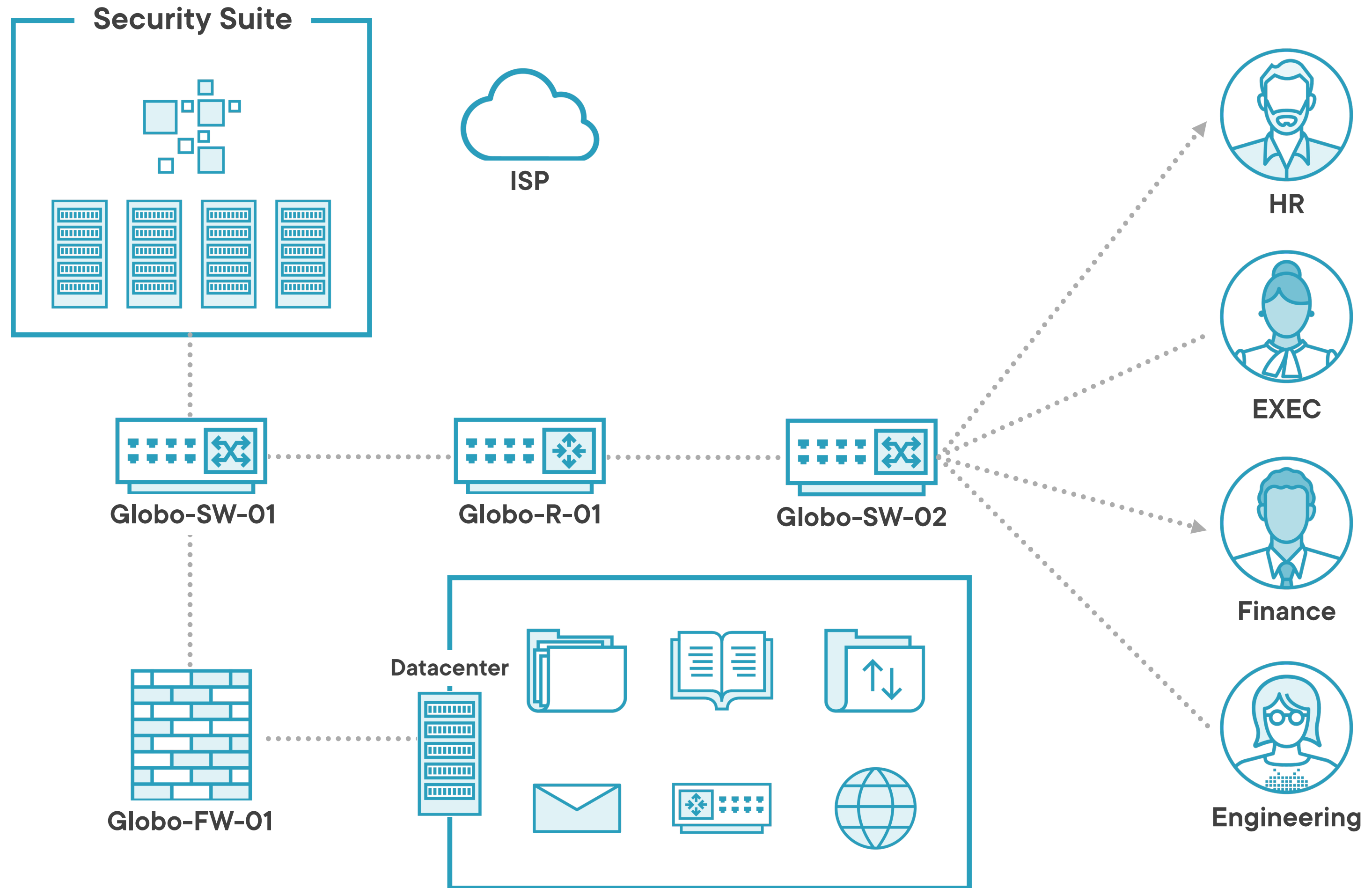
Basic Diagram



Basic Diagram

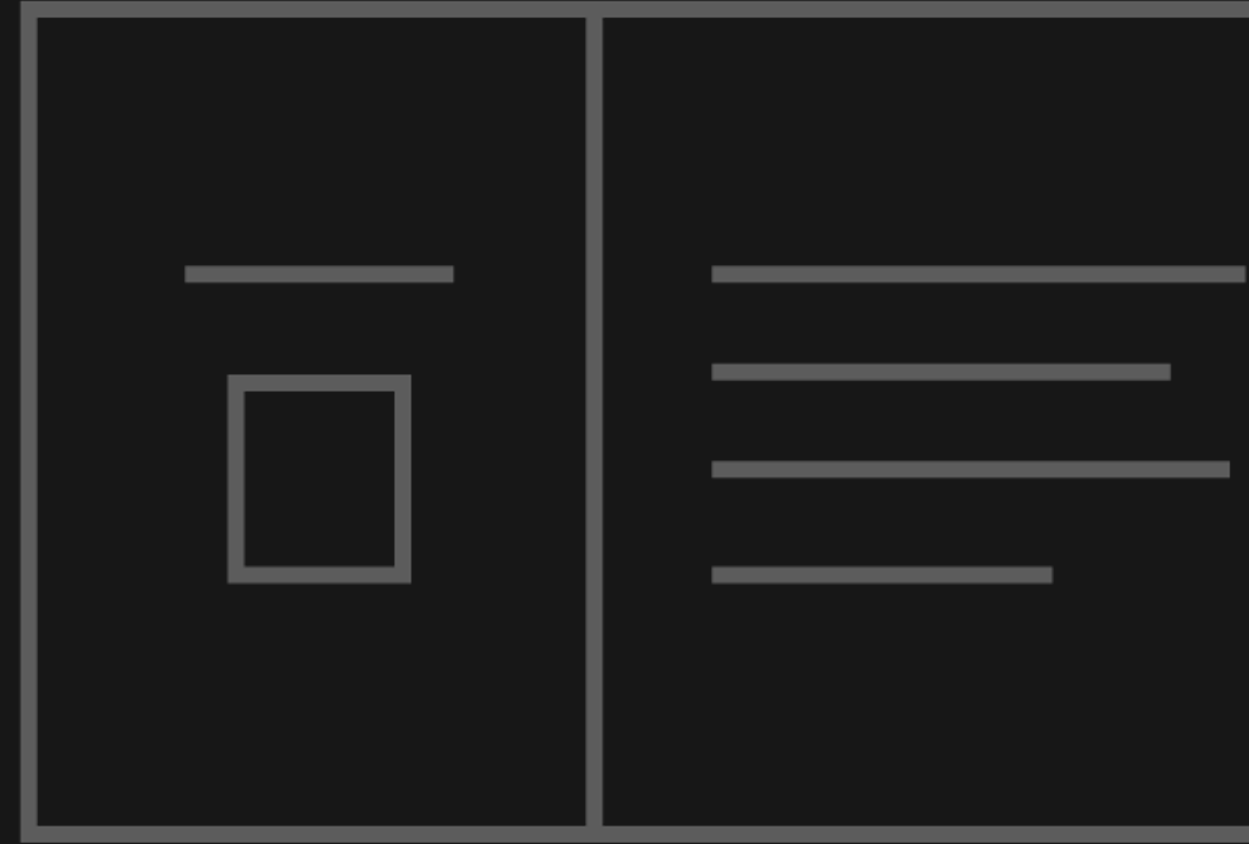




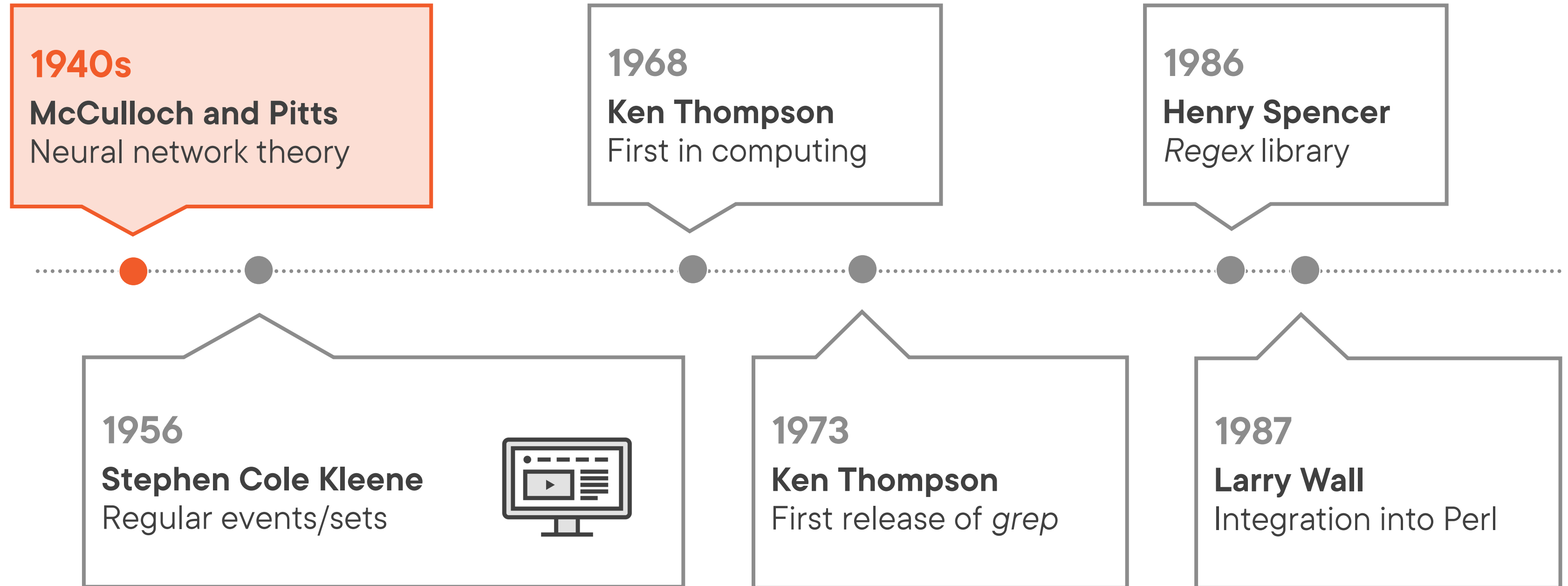


Slide Transitions

Refer to [Author Kit](#) for additional guidance



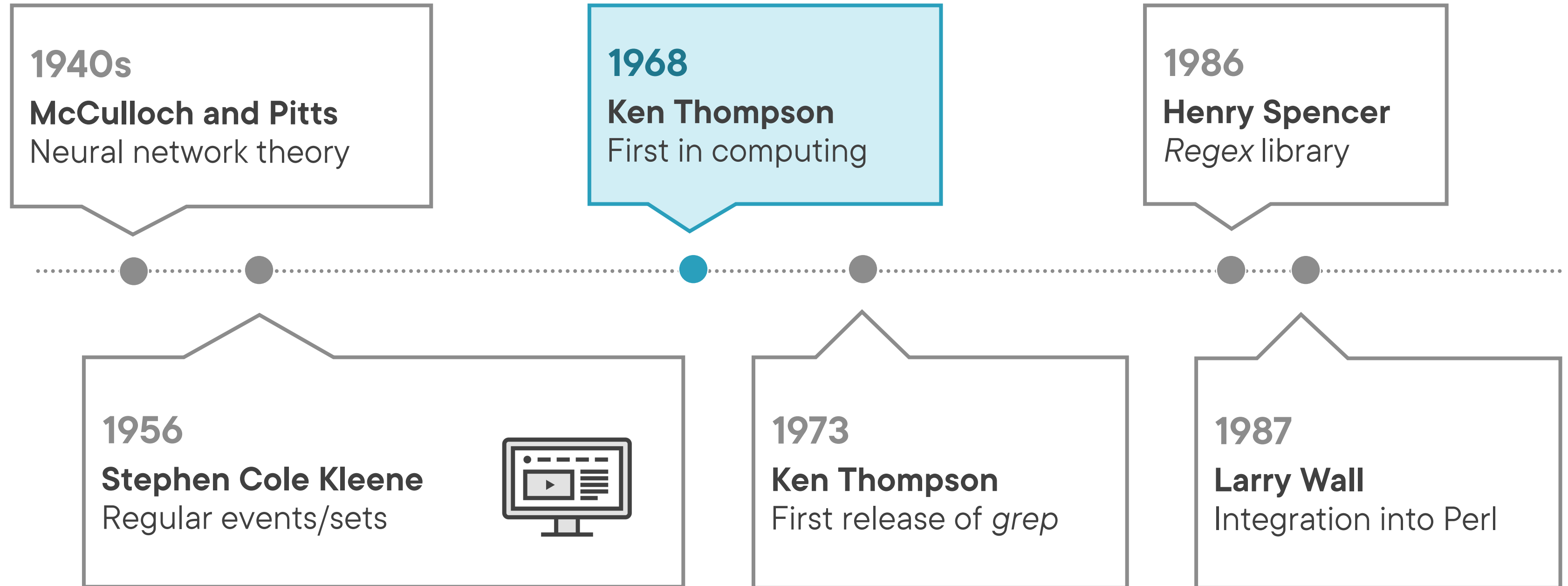
Timeline of Events with Fade Transition



*View in presentation mode



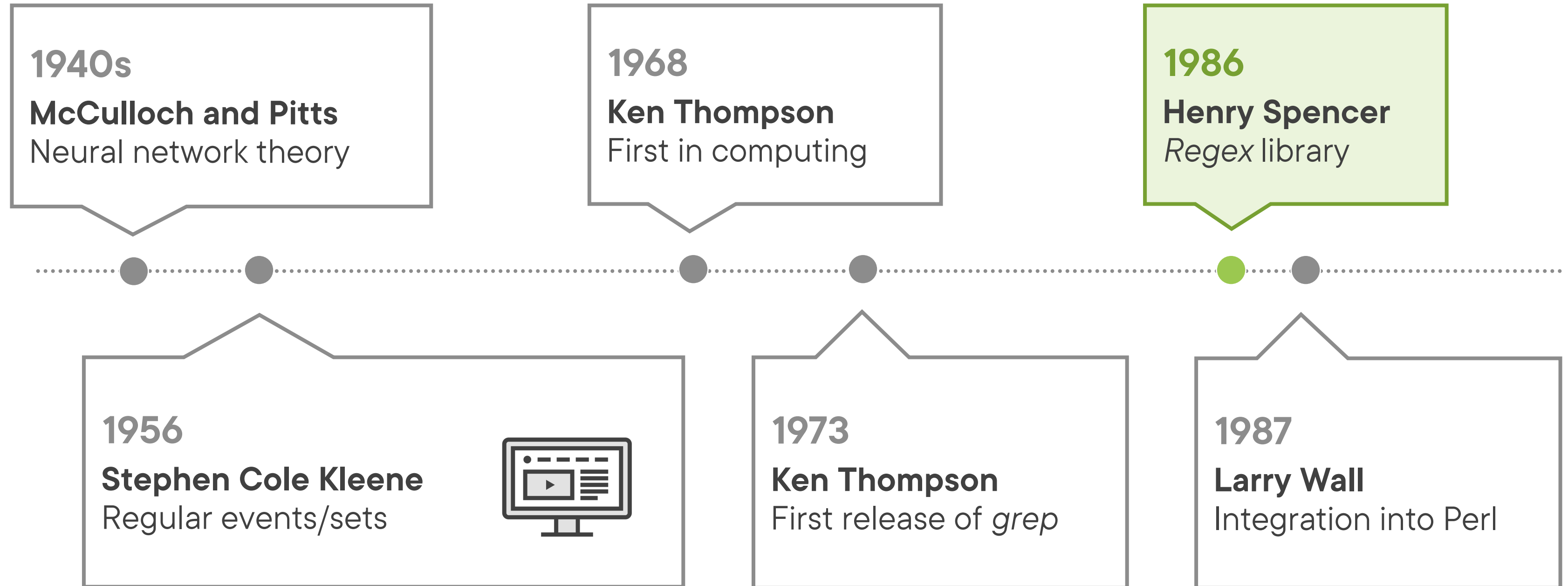
Timeline of Events with Fade Transition



*View in presentation mode



Timeline of Events with Fade Transition



*View in presentation mode



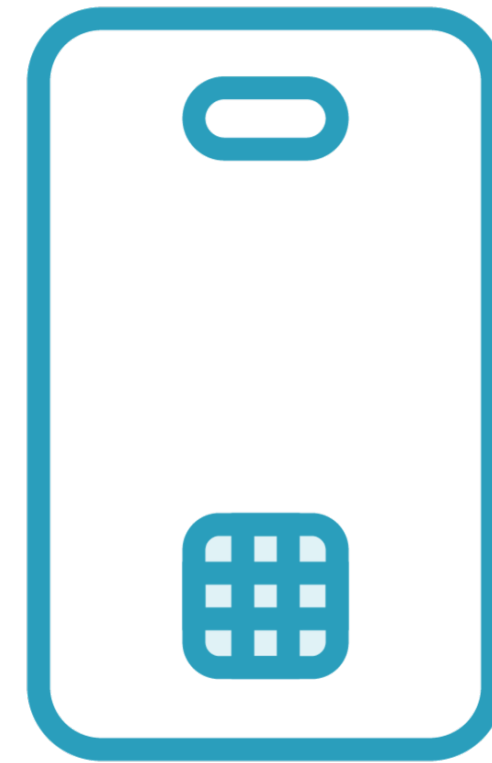
Cover/Uncover Transition



Resource materials



Address book



Key card

Make a statement or
highlight an idea here
between the transition.



Push Transition: Step 1

Push transition: Let's have lots of fun.

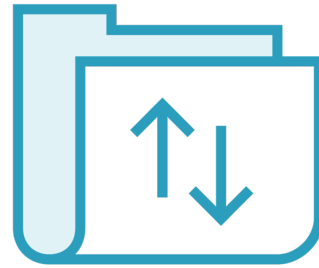


Push Transition: Step 2

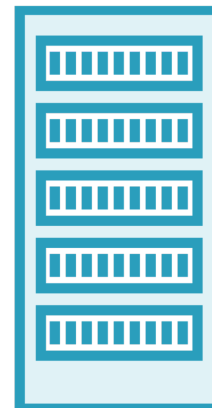
There's so much you can do.



Morph Slide Transition



Datacenter



Morph Slide Transition



Morph Slide Transition

Q1

People who love pineapple on pizza



People who loathe pineapple on pizza



Morph Slide Transition

Q2

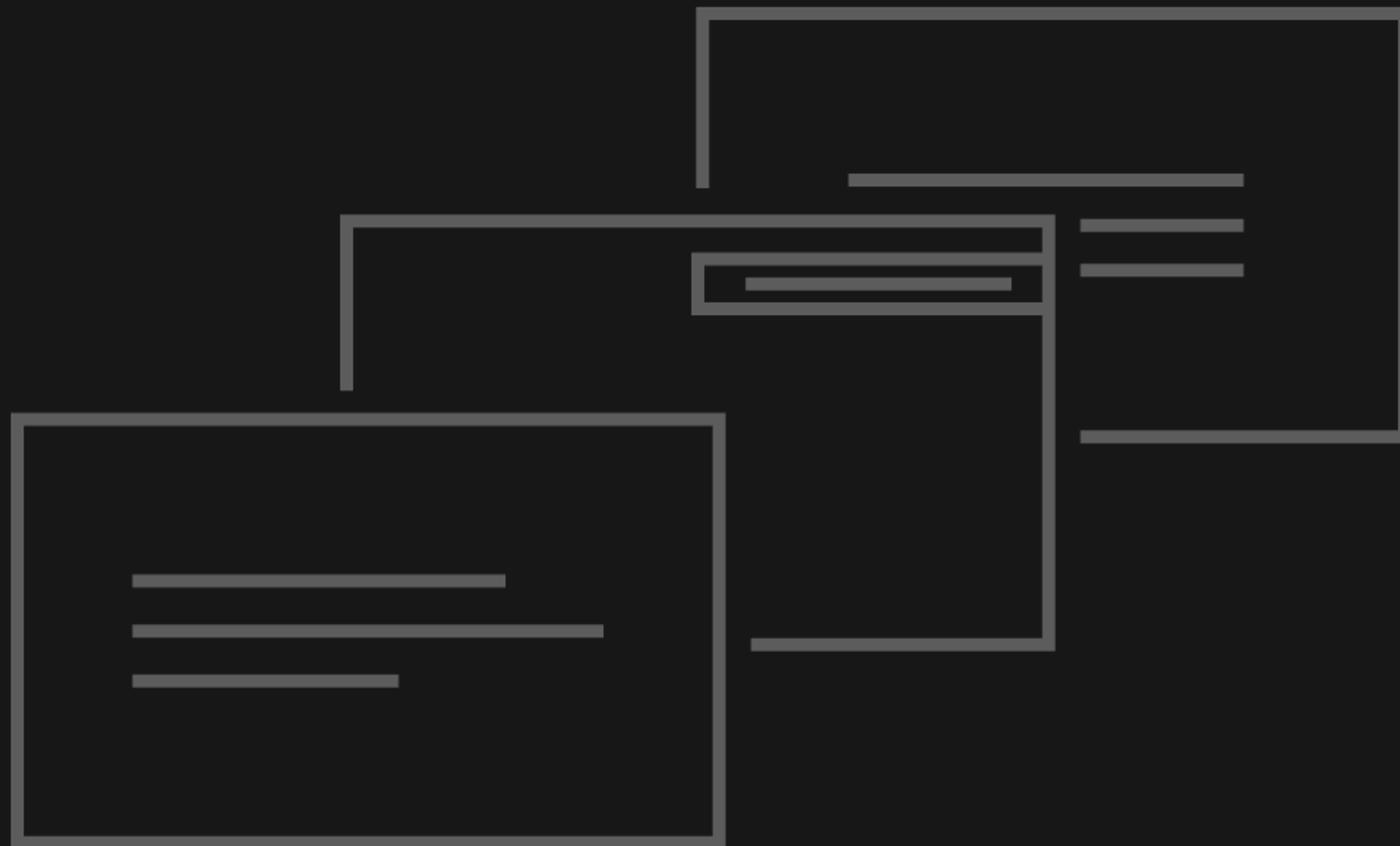
People who love pineapple on pizza



People who loathe pineapple on pizza



Other Slides



Word Definition

Here is where you put the definition. This is one of the few places where complete sentences are appropriate. Be sure to cite your source.



“It is true that the more one learns the less one knows.”

James Baldwin



“Each friend represents a world in us, a world possibly not born until they arrive, and it is only by this meeting that a new world is born.”

Anaïs Nin





Bugs, Bugs, Everywhere!

Add a short bit of description text in this area. This should be a quick intro slide to an idea without a lot of text. Stick to a few sentences.





Bugs, Bugs, Everywhere!

Add a short bit of description text in this area.

This should be a quick intro slide to an idea without a lot of text. Stick to a few sentences.



This is a short, important
statement to bring
attention to something.



A full-screen landscape image featuring a hot air balloon with horizontal stripes of purple, red, orange, and yellow. The balloon is positioned in the upper left quadrant, floating over a vast vineyard. The vineyard is divided into neat rows of green vines, with a dirt path winding through them. In the background, there are dense green forests and rolling hills under a sky with soft, golden light from a setting or rising sun. A small white text box with a green vertical bar on its left side is located in the upper right corner.

You can use full-screen images too!