

#WWDC18

Designing Web Content for watchOS

Session 239

Wenson Hsieh, WebKit

Mail



watchOS 4



watchOS 5

Mail



watchOS 4



watchOS 5

Links



watchOS 4



watchOS 5

Links



watchOS 4



watchOS 5

Designing Web Content for watchOS

How It Works

Optimizing Layout

Form Controls

Safari Reader

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Form Controls

Safari Reader

How It Works



How It Works

Scrolling

Digital Crown

Pan gestures



How It Works

Scrolling

Digital Crown

Pan gestures

Double tap to zoom



How It Works

Scrolling

Digital Crown

Pan gestures

Double tap to zoom

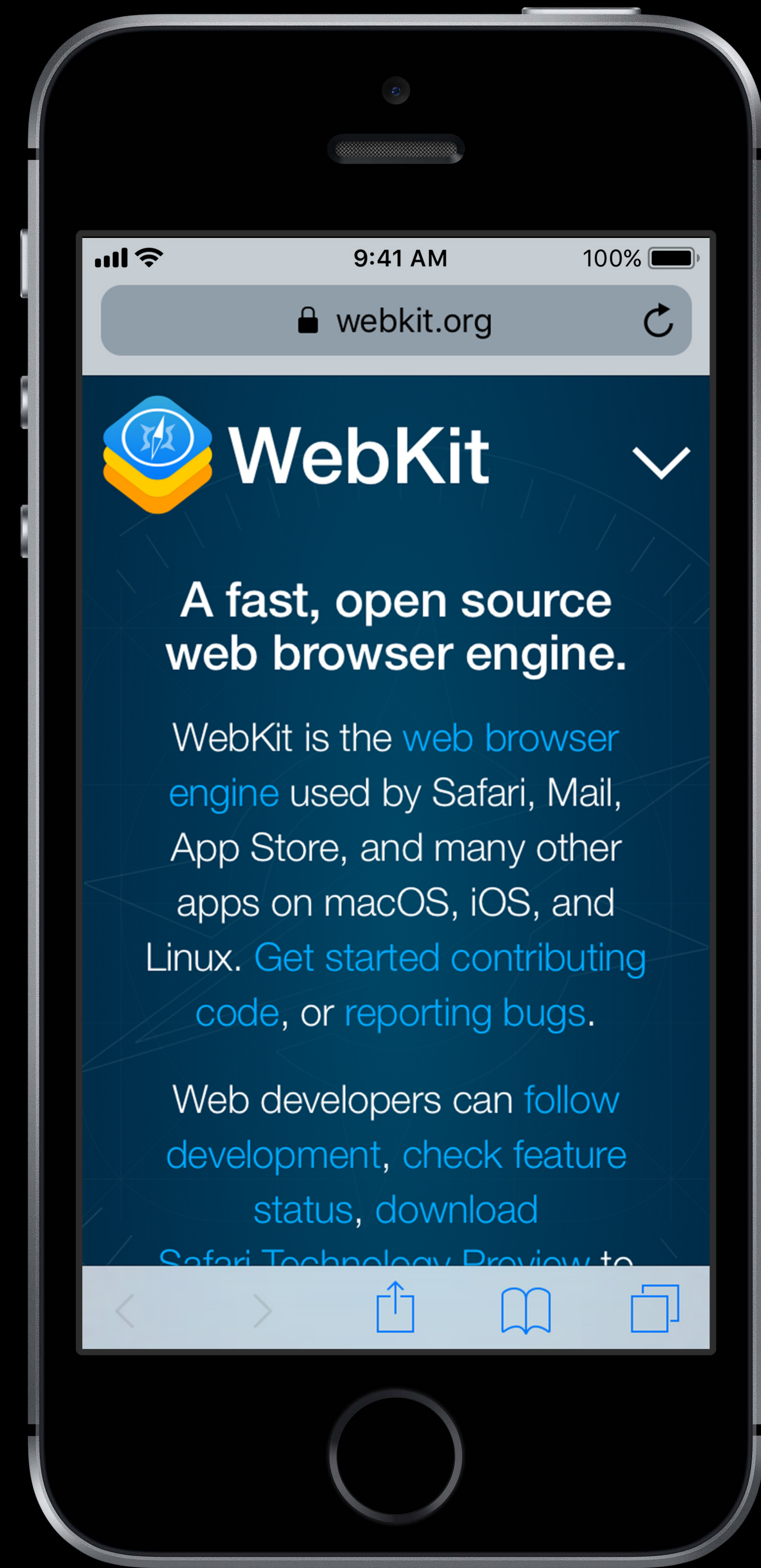
Back/forward

Firm press

Edge swipe



How It Works



320 pt
initial scale: 1

How It Works



320 pt
initial scale: 1



shrink to fit



156 pt
initial scale: 0.49

How It Works



156 pt
initial scale: 0.49

How It Works

`initial-scale` is overridden



156 pt
initial scale: 0.49

How It Works

`initial-scale` is overridden

Viewport dimensions: 320 by 357



156 pt
initial scale: 0.49

How It Works

`initial-scale` is overridden

Viewport dimensions: 320 by 357

Width for media queries: 320



156 pt
initial scale: 0.49

How It Works

`initial-scale` is overridden

Viewport dimensions: 320 by 357

Width for media queries: 320

Avoids horizontal scrolling



156 pt
initial scale: 0.49

Designing Web Content for watchOS

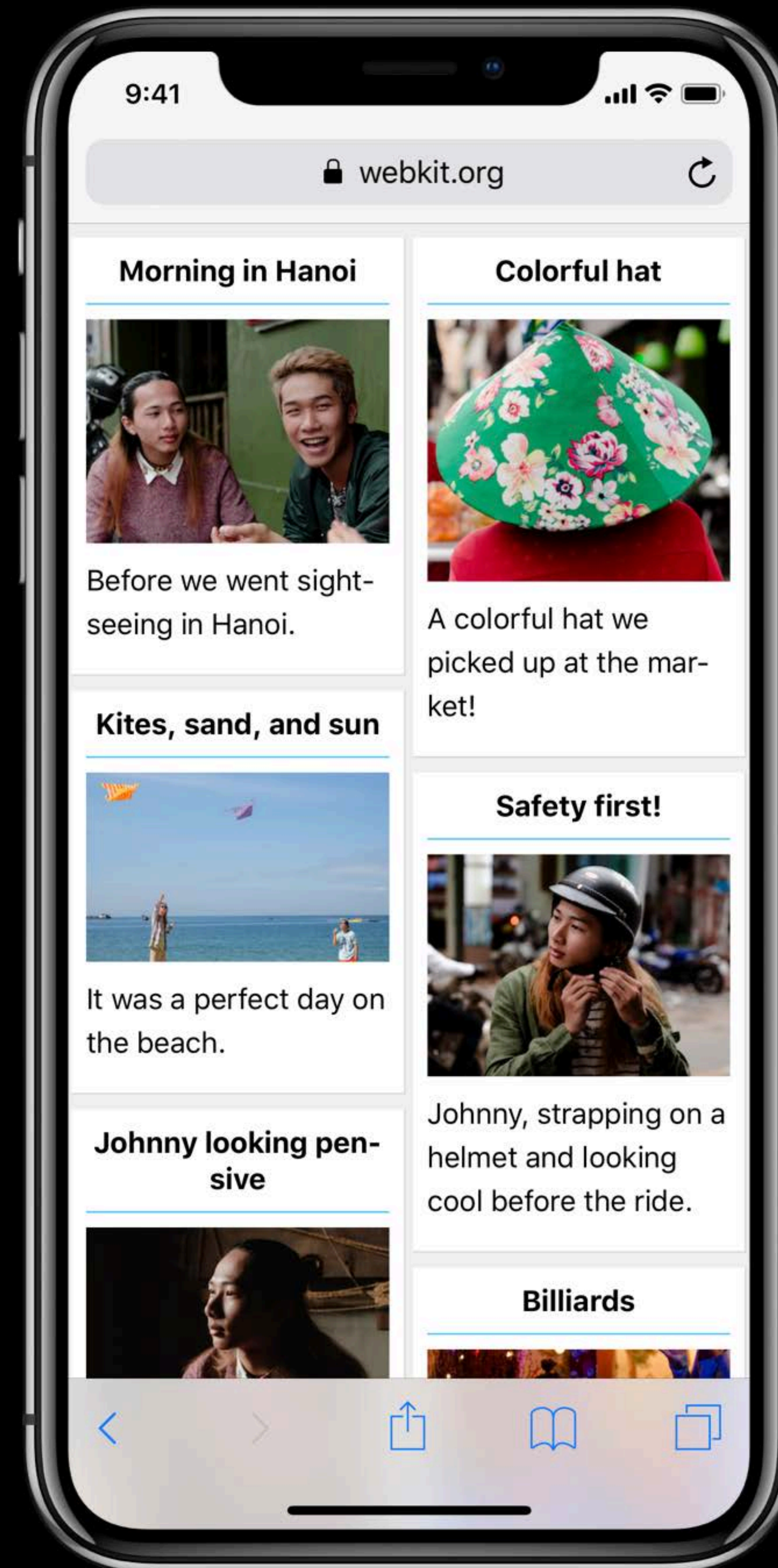
How It Works

Optimizing Layout

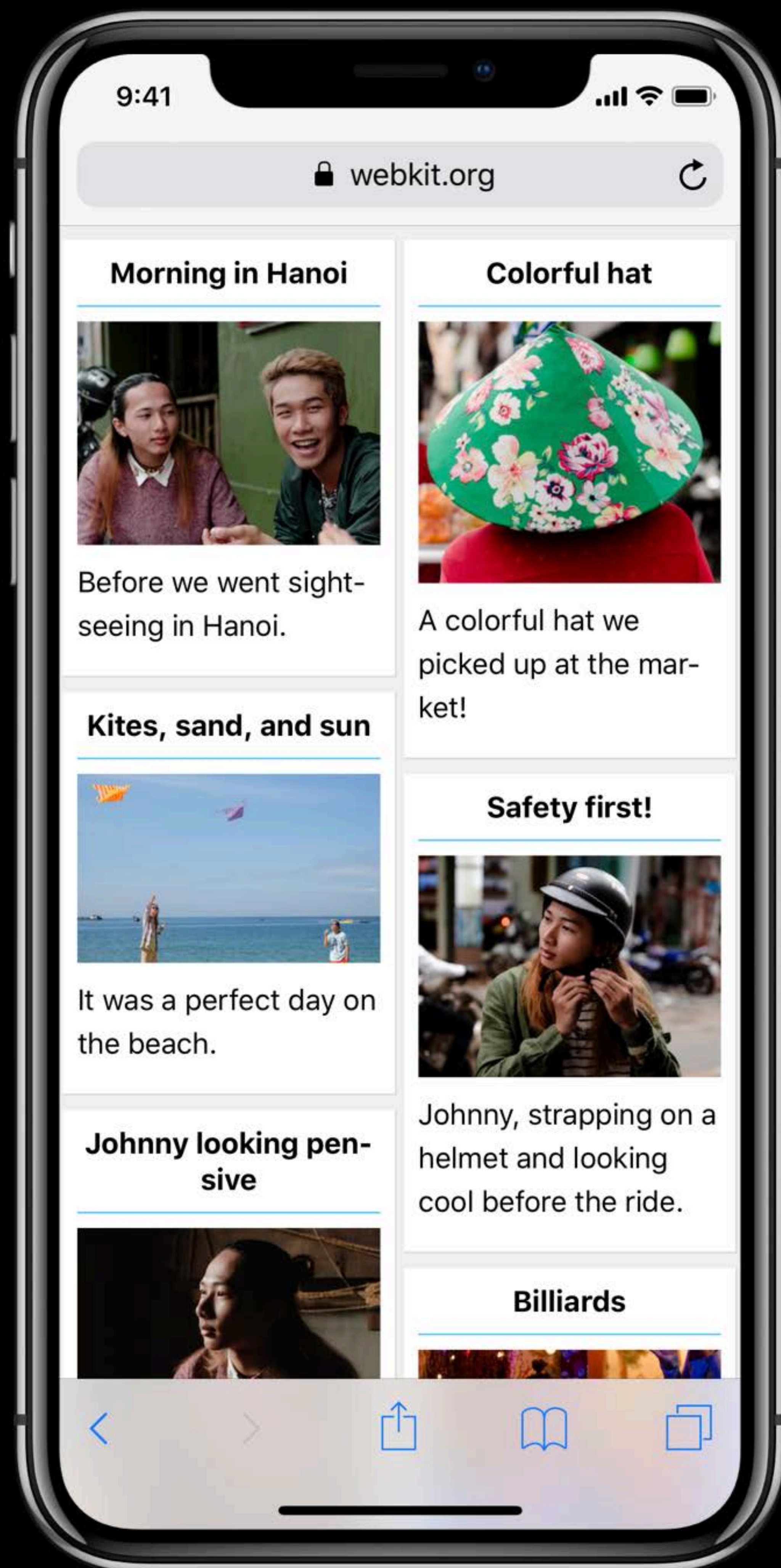
Form Controls

Safari Reader

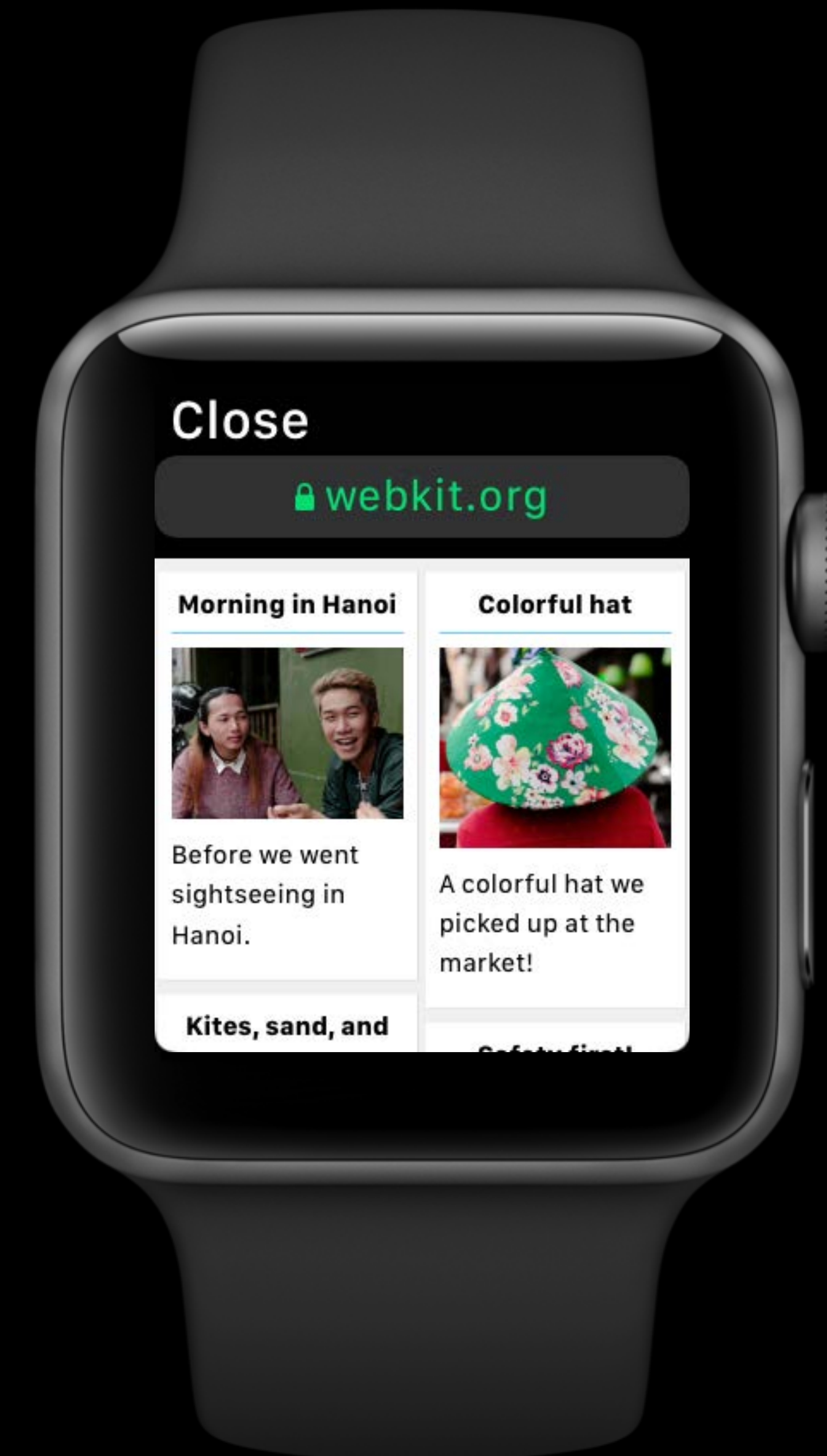
Optimizing Layout



Optimizing Layout



Optimizing Layout



Optimizing Layout

```
@media (min-width: 320px) {  
  .column {  
    width: 50%;  
  }  
  body {  
    display: flex;  
  }  
}
```



Optimizing Layout

```
@media (min-width: 320px) {  
  .column {  
    width: 50%;  
  }  
  body {  
    display: flex;  
  }  
}
```



Optimizing Layout

```
<meta name="disabled-adaptations"  
      content="watch">
```

```
<meta name="viewport"  
      content="width=device-width">
```

```
@media (min-width: 320px) {  
  .column {  
    width: 50%;  
  }  
  body {  
    display: flex;  
  }  
}
```



Designing Web Content for watchOS

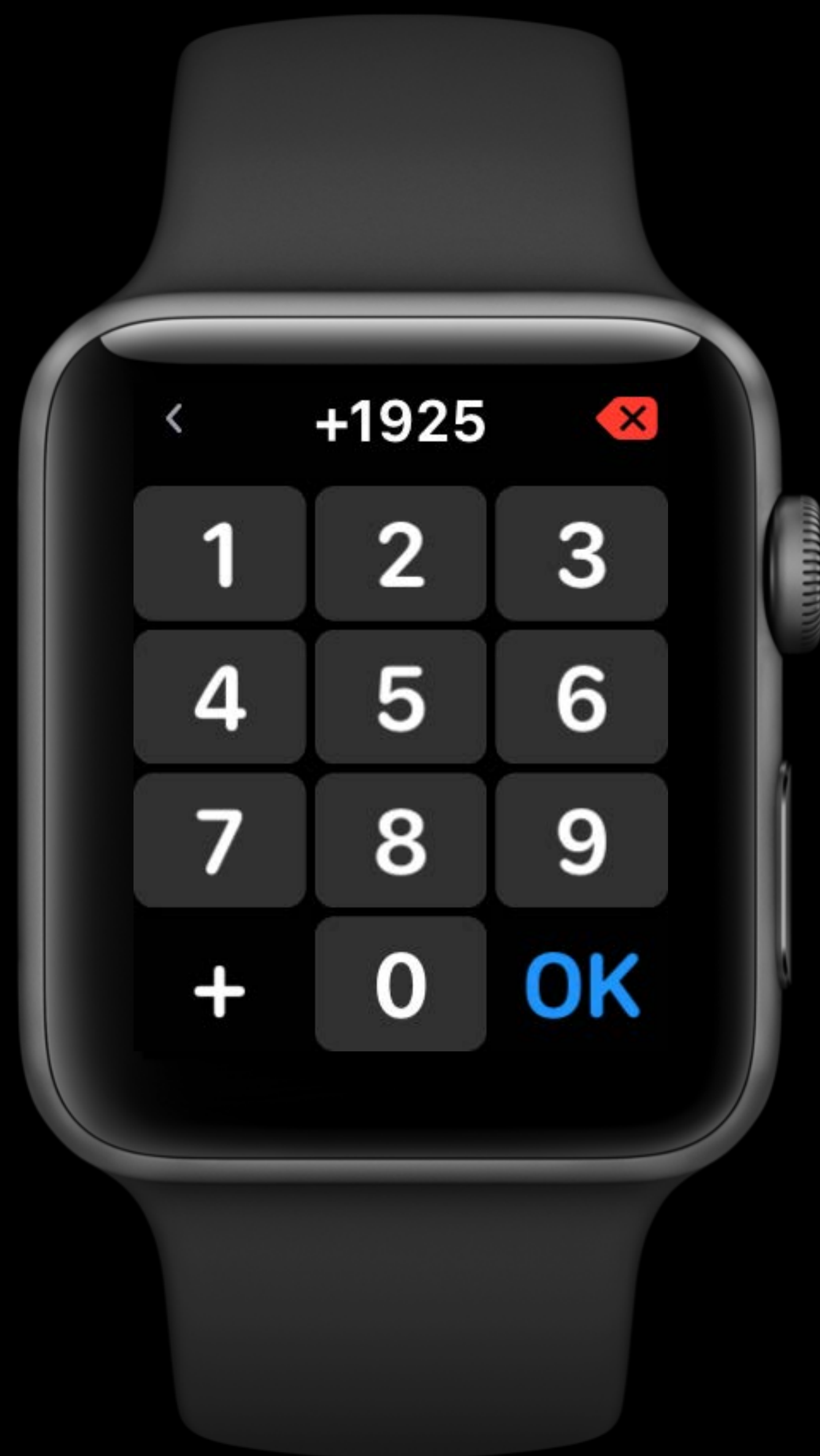
How It Works

Optimizing Layout

Form Controls

Safari Reader

Form Controls



```
<input type="tel">
```

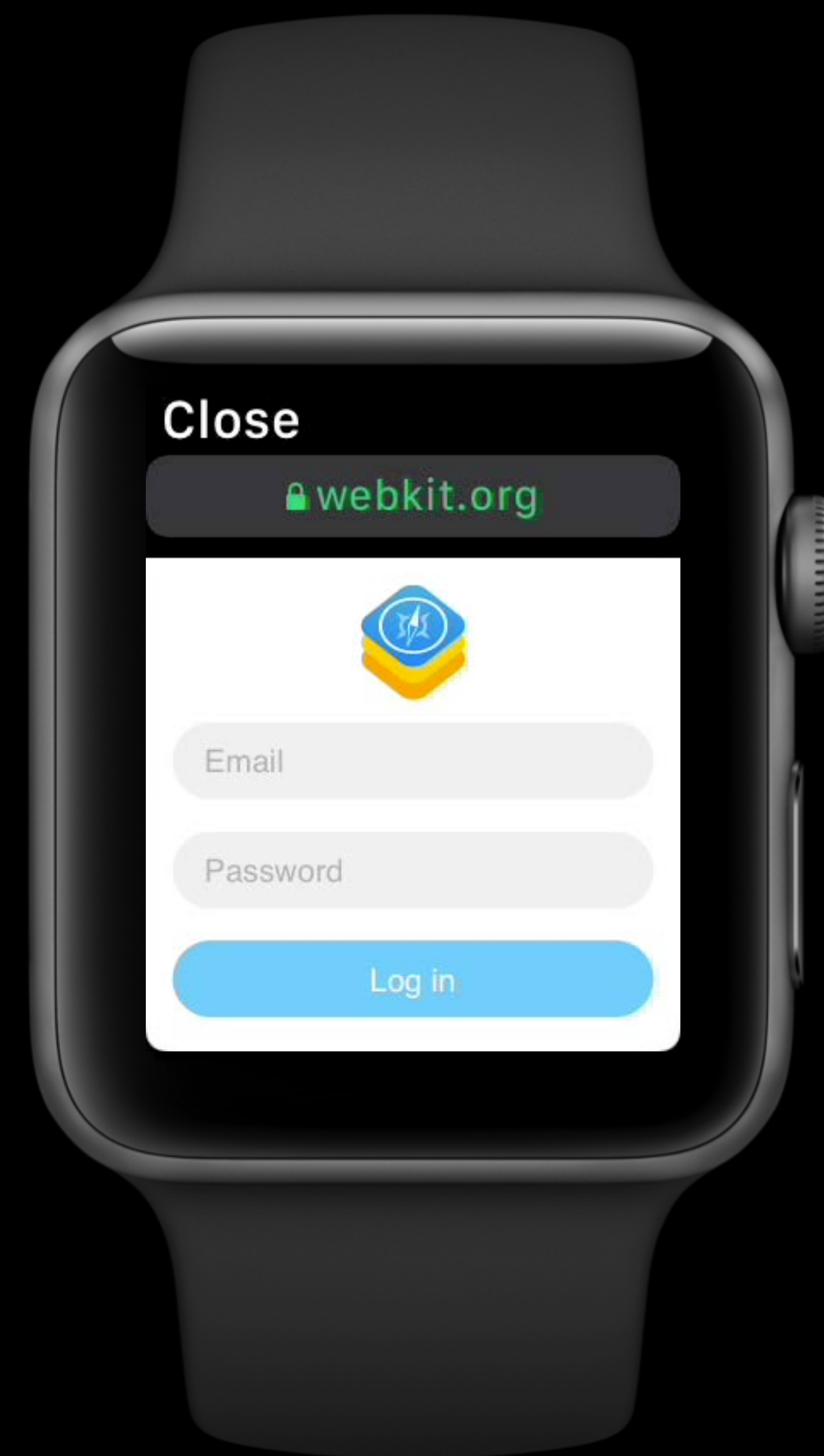


```
<input type="date">
```



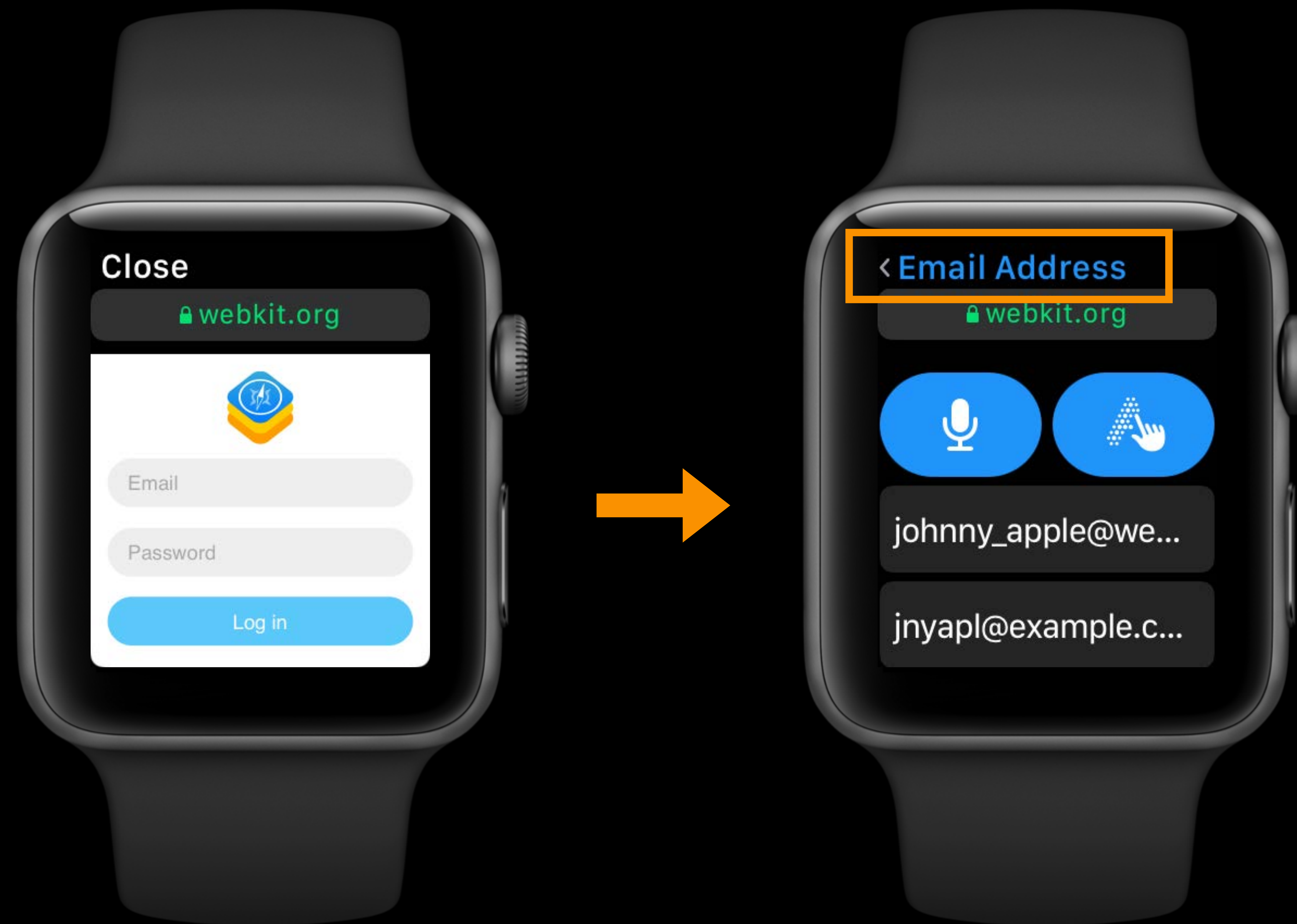
```
<select>
```

Form Controls



```
<input type="email" aria-label="Email Address">
```

Form Controls



```
<input type="email" aria-label="Email Address">
```

Designing Web Content for watchOS

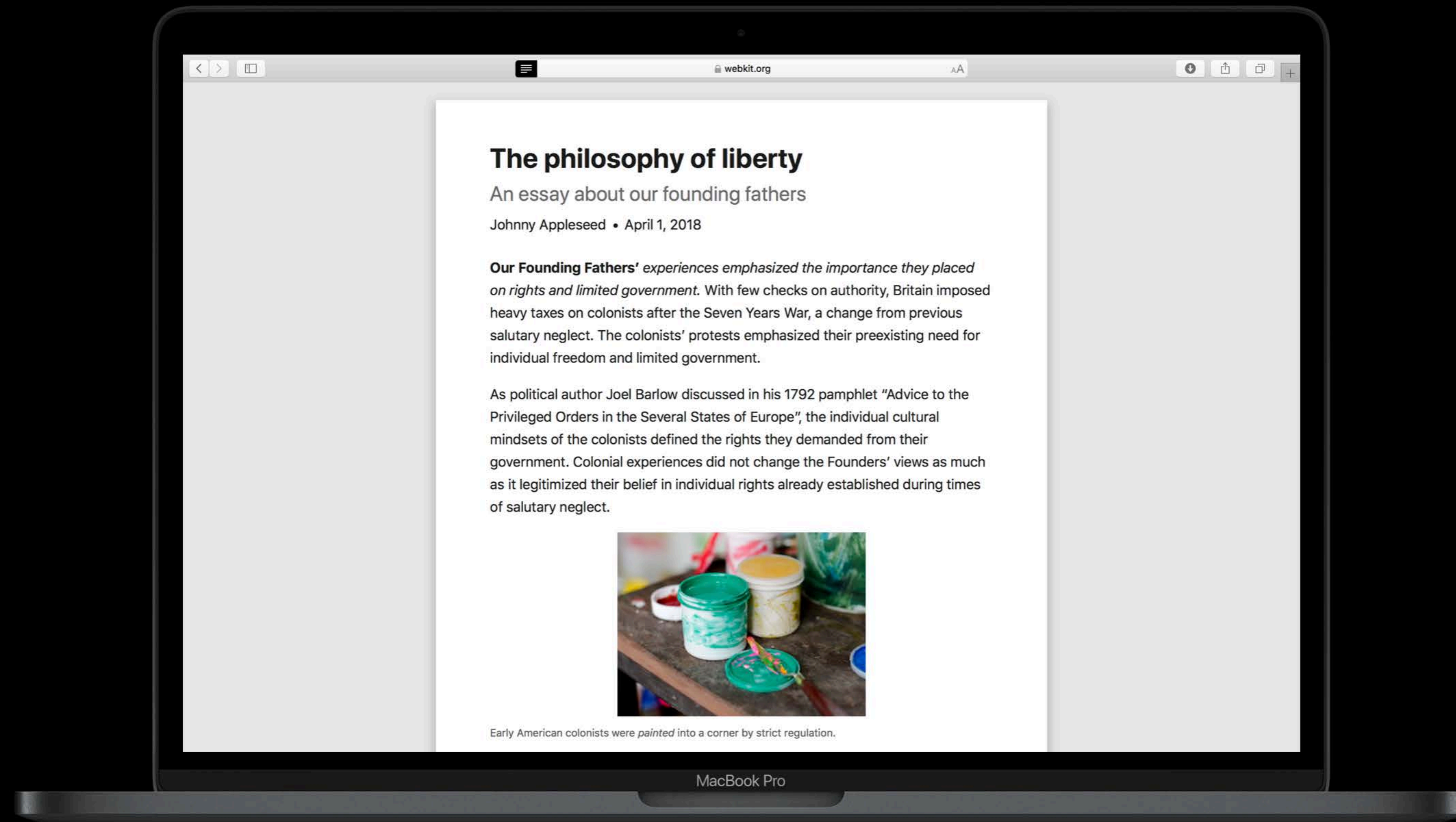
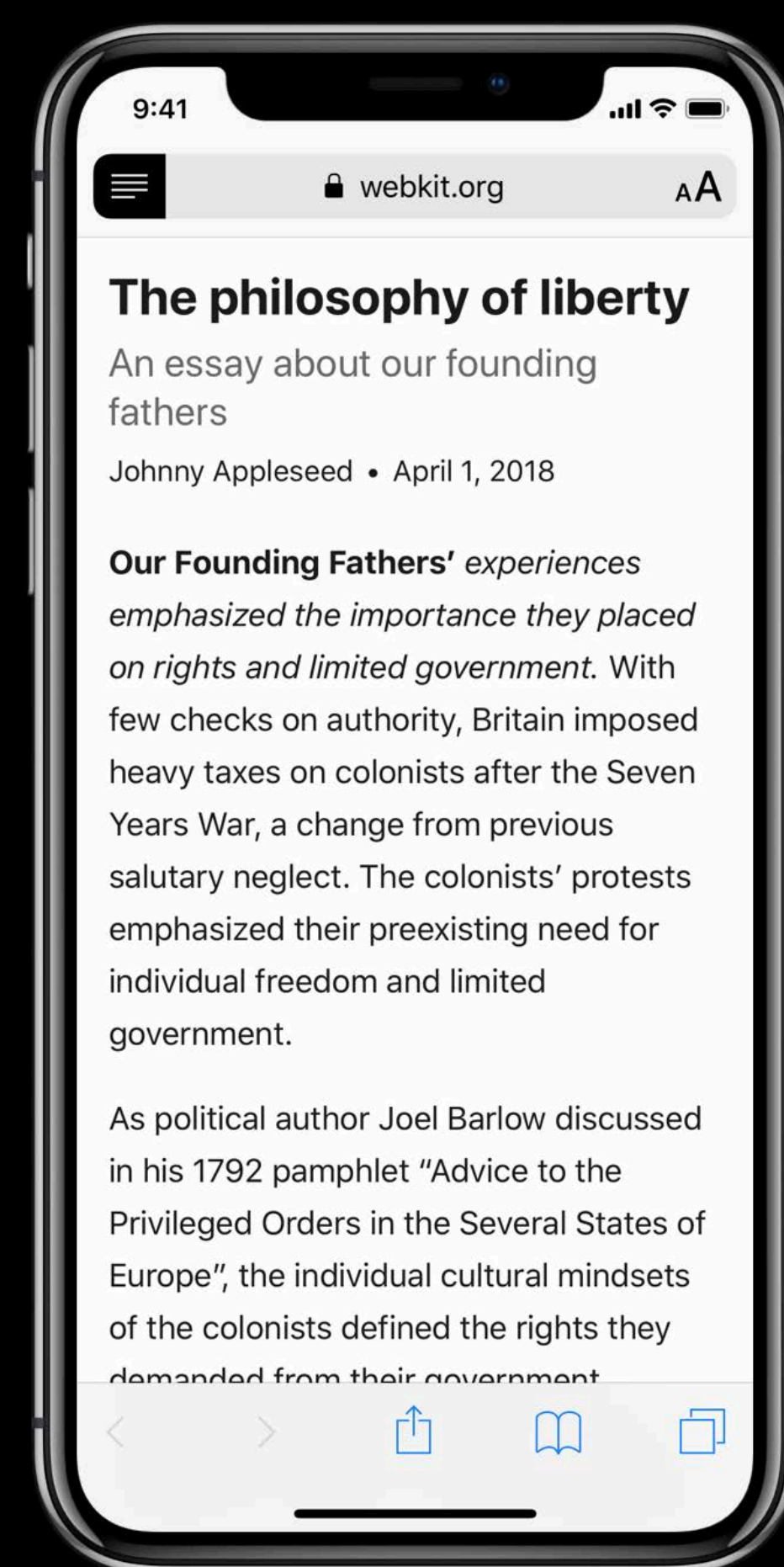
How It Works

Optimizing Layout

Form Controls

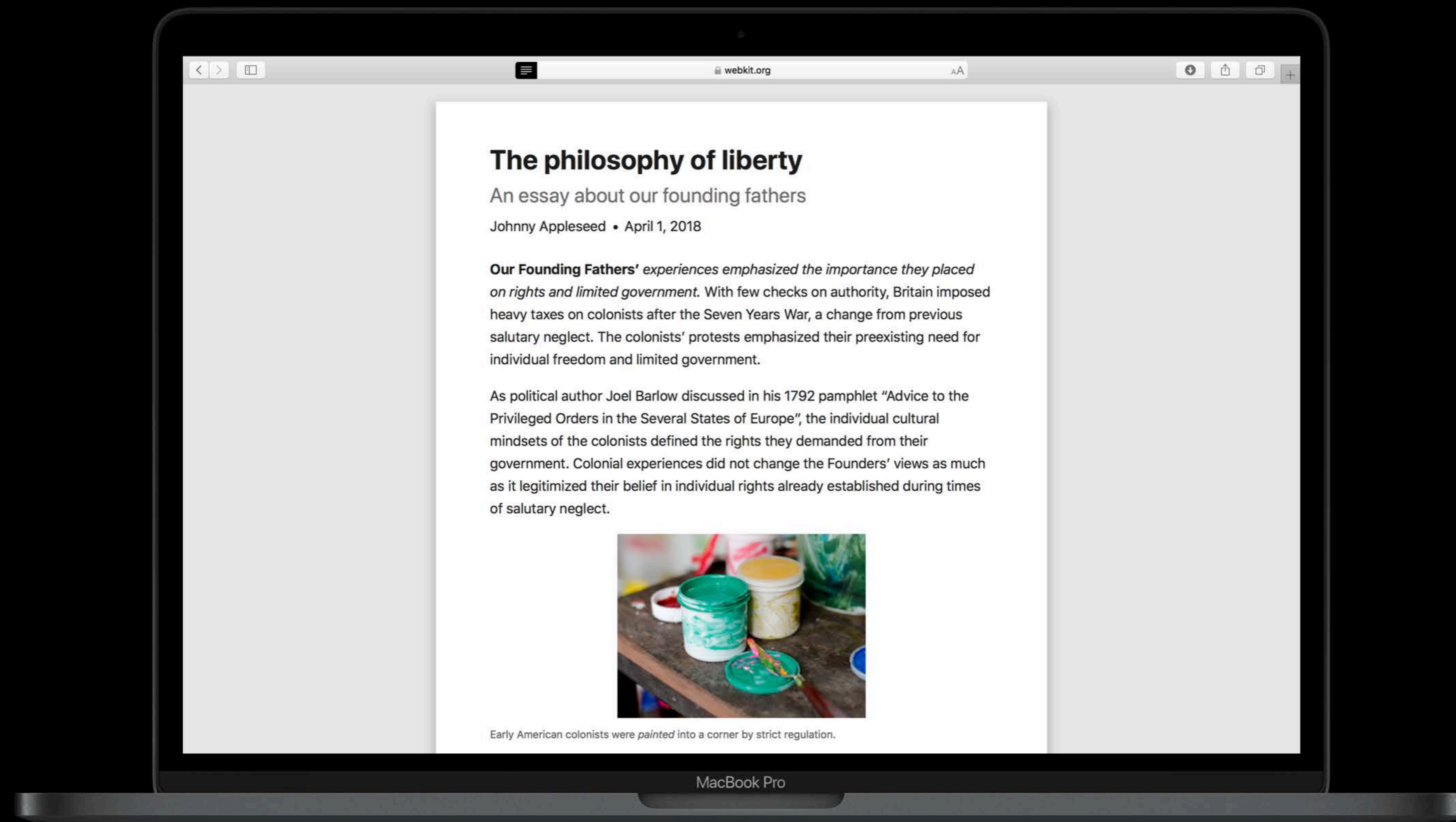
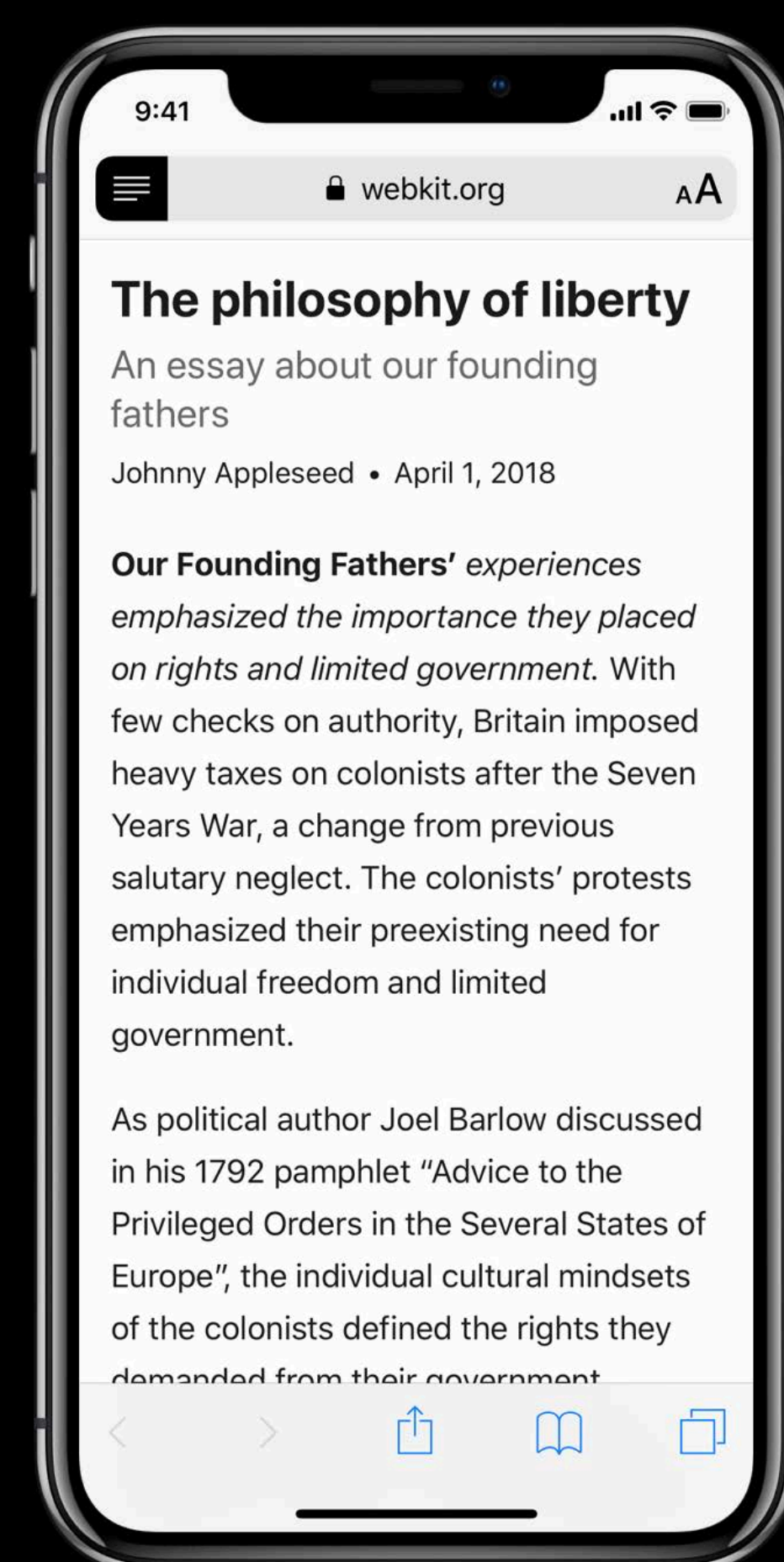
Safari Reader

Safari Reader



Reader on iOS and macOS

Safari Reader



Reader on iOS and macOS

Safari Reader



Reader on watchOS

Safari Reader



Enclose main content in an `article` element

Safari Reader



Use `itemprop` to apply semantic attributes

Safari Reader



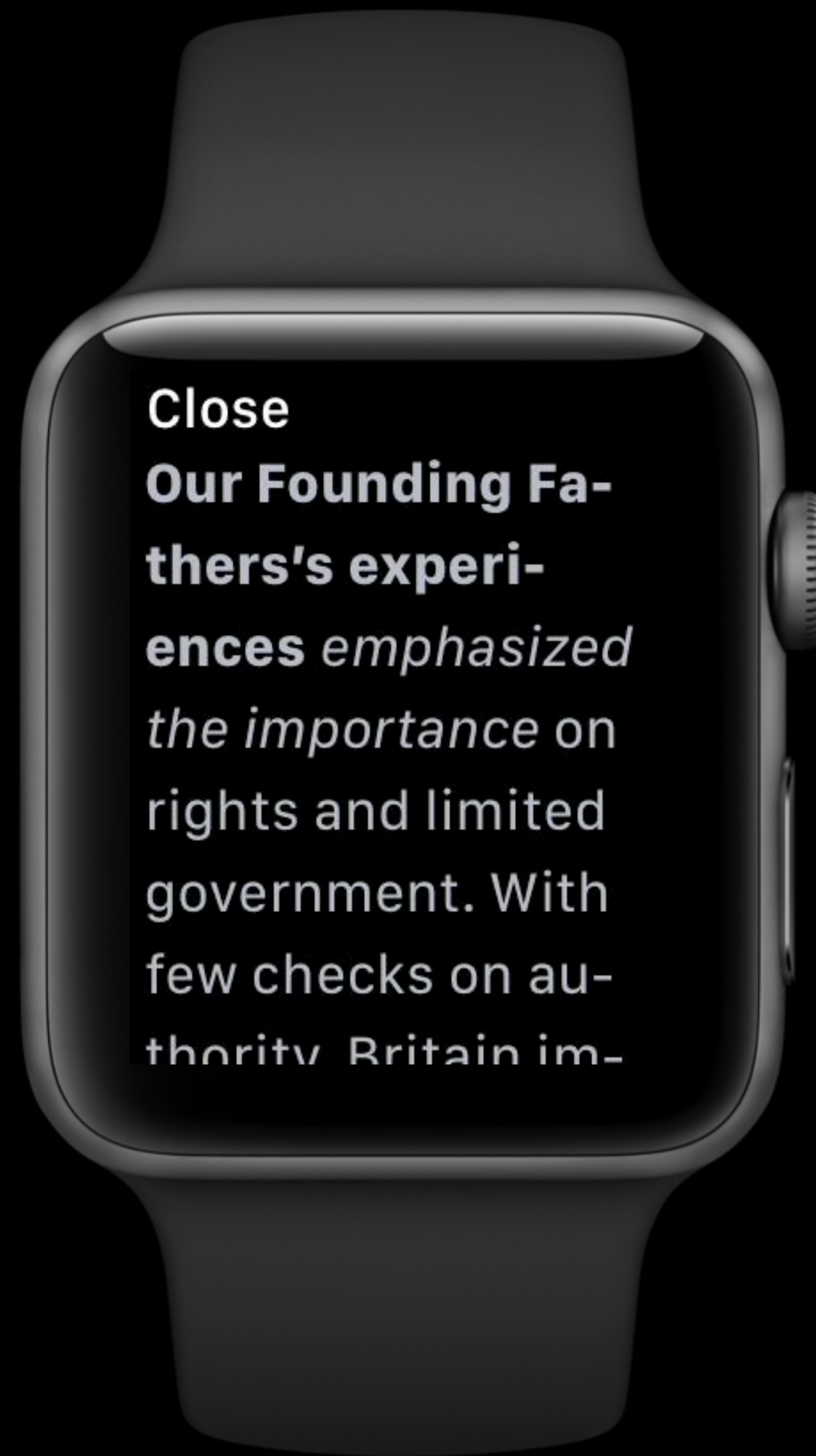
Use `strong` and `em` elements for semantically styled text

Safari Reader



Use `strong` and `em` elements for semantically styled text

Safari Reader



Enclose images and captions in `figure` elements

Safari Reader



Enclose images and captions in `figure` elements

Safari Reader



Enclose quoted content in `blockquote` elements

Safari Reader



<blockquote>

Enclose quoted content in `blockquote` elements

Safari Reader



Enclose quoted content in `blockquote` elements

Safari Reader

```
<meta property="og:image"  
  content="https://...constitution.jpg">
```

```
<meta property="og:title"  
  content="The philosophy of liberty">
```



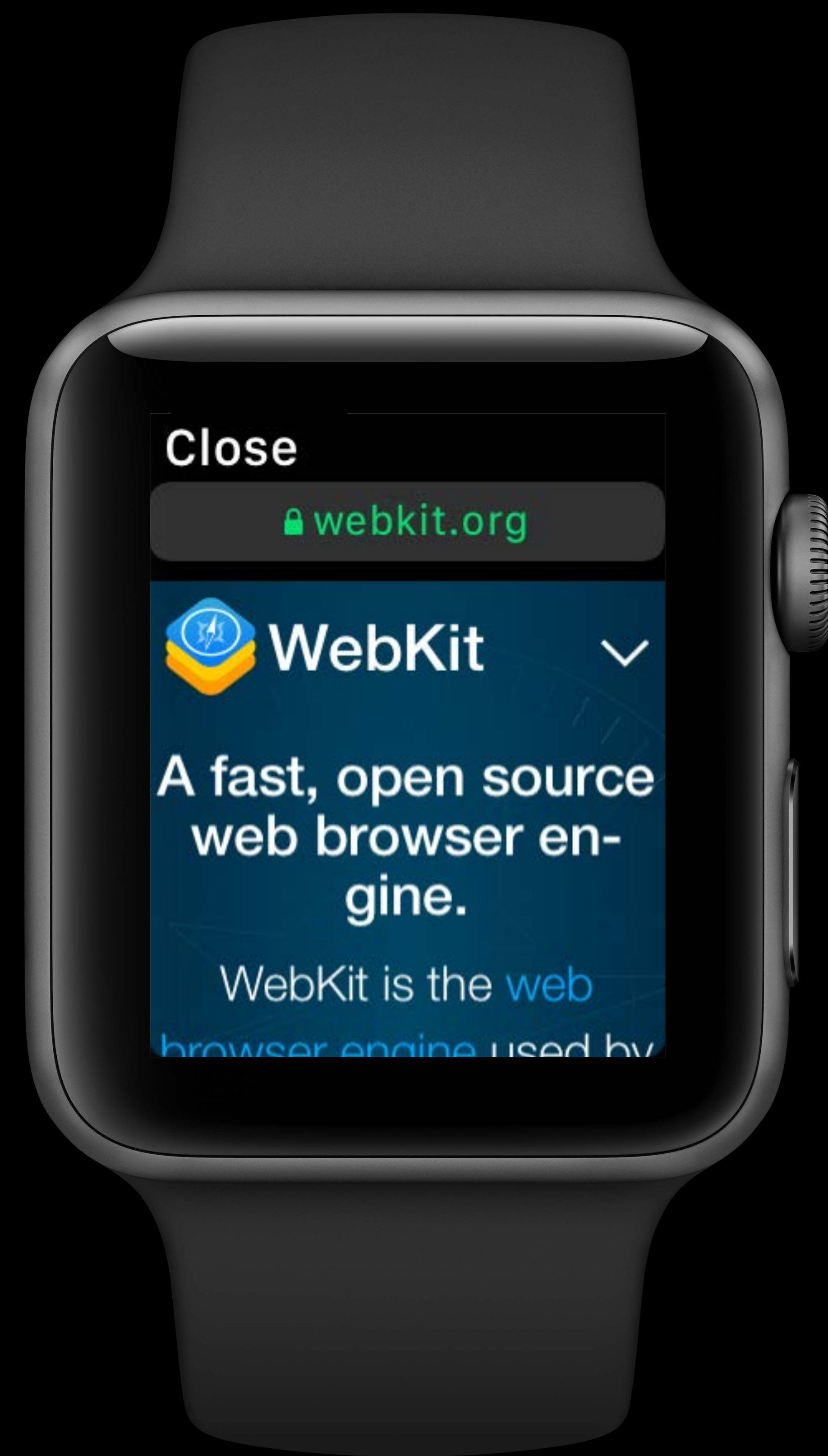
Use opengraph meta tags to provide additional context

More Information

<https://developer.apple.com/session239>

Summary

Summary



How It Works

Summary



How It Works



Optimizing Layout

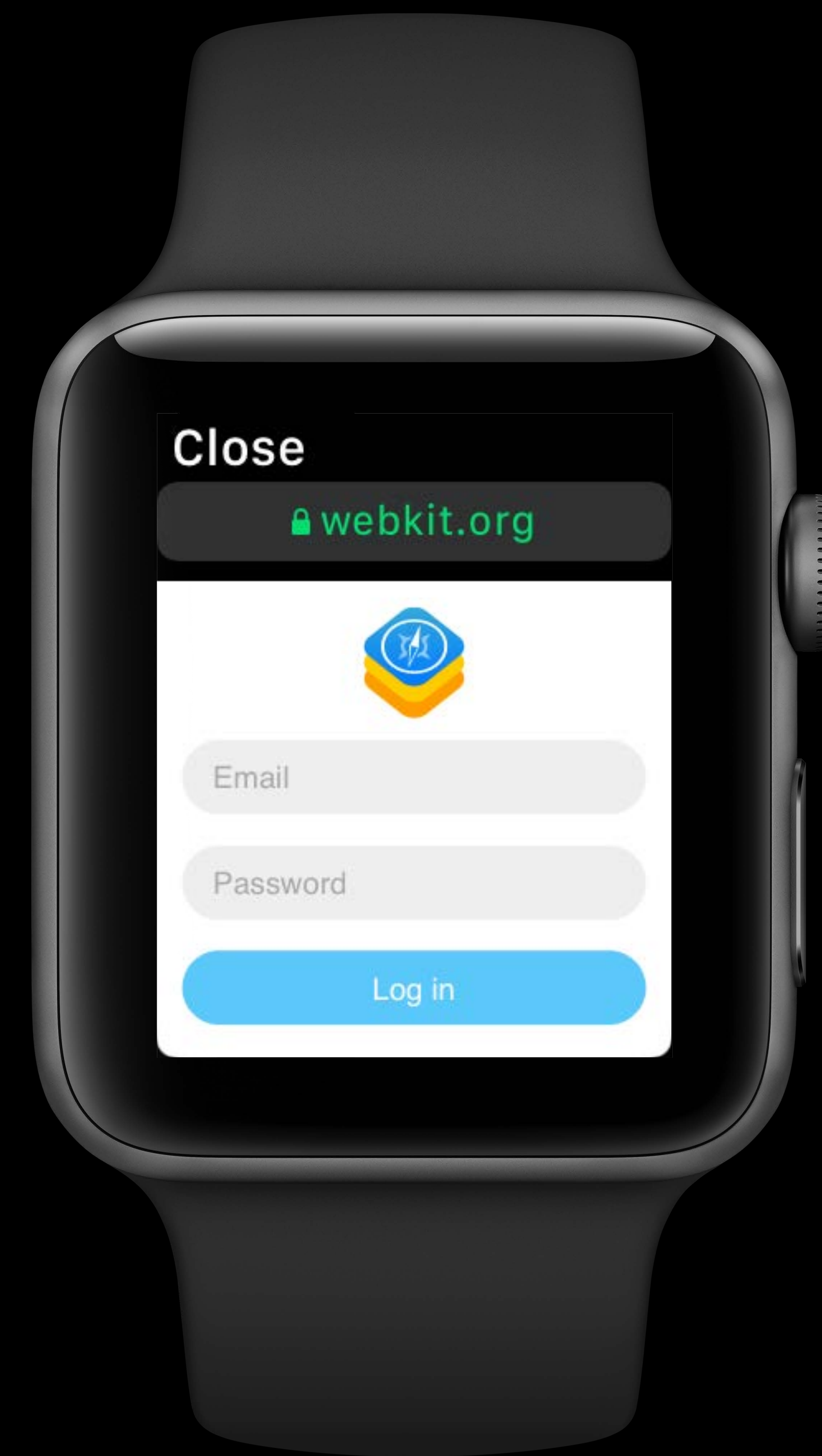
Summary



How It Works



Optimizing Layout



Form Controls

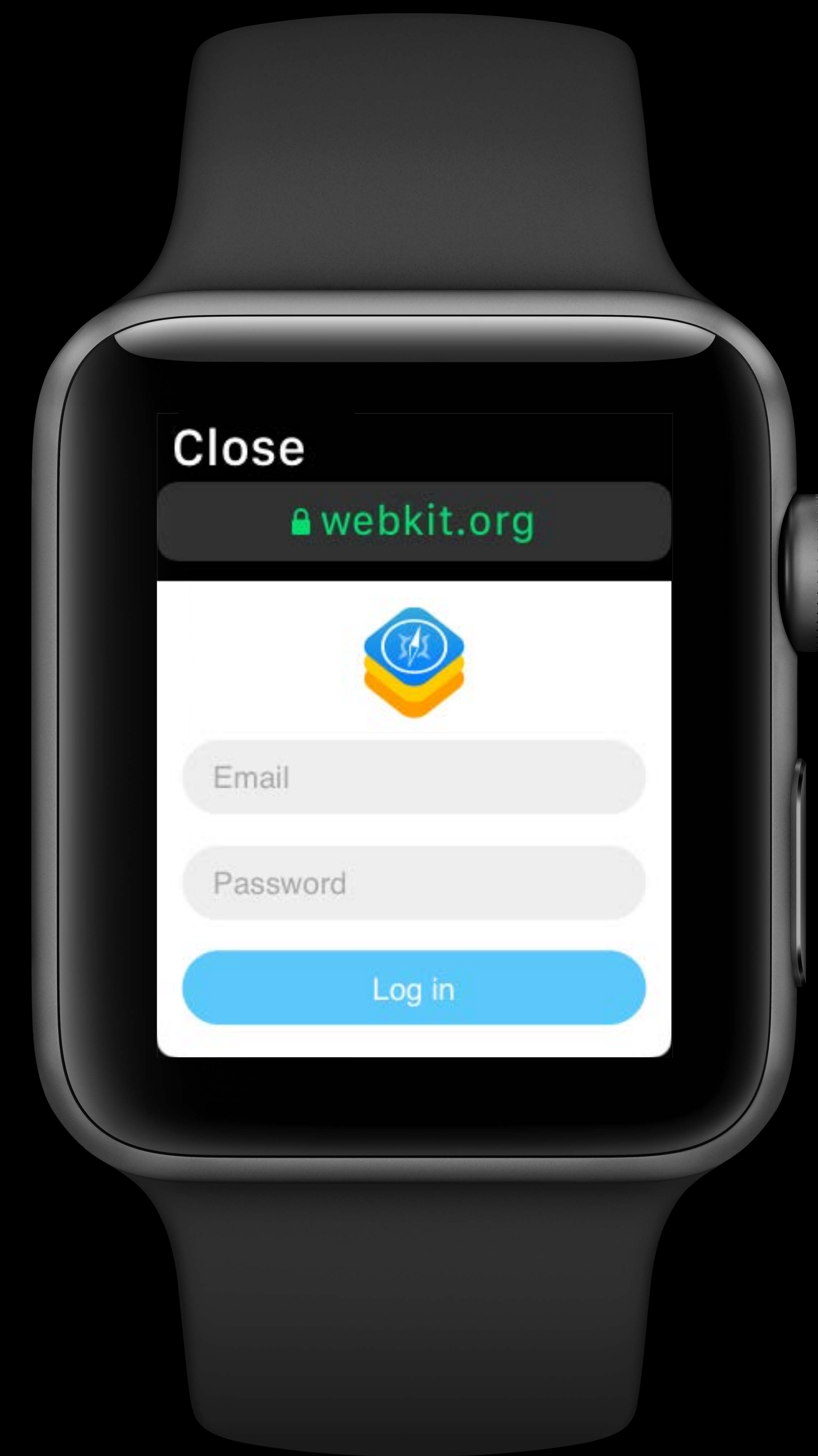
Summary



How It Works



Optimizing Layout



Form Controls



Safari Reader

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