Designing Web Content for watchOS

Session 239

Wenson Hsieh, WebKit
Mail

- Yahoo! 10:09
  unleash their pot...
  5/24/17

- Apple
  Celebrate Mom wi...
  She'll get more
done and have m...
  5/4/17

App Store
Super Salsa and

watchOS 4

watchOS 5
Links

watchOS 4

watchOS 5
Designing Web Content for watchOS

How It Works
Optimizing Layout
Form Controls
Safari Reader
Designing Web Content for watchOS

How It Works
Optimizing Layout
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

WebKit

A fast, open source web browser engine.

WebKit is the web browser engine used by Safari, Mail, App Store, and many other apps on macOS, iOS, and Linux. Get started contributing code, or reporting bugs.

Web developers can follow development, check feature status, download Safari Technology Preview, etc.
How It Works

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shrink to fit

320 pt
initial scale: 1

156 pt
initial scale: 0.49
How It Works

A fast, open source web browser engine.

WebKit is the web browser engine that powers Safari and other browsers.
How It Works

initial-scale is overridden
How It Works

*initial-scale* is overridden

Viewport dimensions: 320 by 357
How It Works

`initial-scale` is overridden

Viewport dimensions: 320 by 357

Width for media queries: 320
How It Works

initial-scale is overridden

Viewport dimensions: 320 by 357

Width for media queries: 320

Avoids horizontal scrolling
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

```html
<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

```html
<input type="email" aria-label="Email Address">
```
Designing Web Content for watchOS

How It Works

Optimizing Layout

Form Controls

Safari Reader
The philosophy of liberty
An essay about our founding fathers
Johnny Appleseed  April 1, 2018

Our Founding Fathers' experiences emphasized the importance they placed on rights and limited government. With few checks on authority, Britain imposed heavy taxes on colonists after the Seven Years War, a change from previous salutary neglect. The colonists' protests emphasized their resentment need for individual freedom and limited government.

As political author Joel Barlow discussed in his 1792 pamphlet "A Appeal to the Privileged Orders in the Several States of Europe", the individual cultural mindsets of the colonists defined the rights they demanded from their government. Colonial experiences did not change the Founders' views as much as it legitimized their belief in individual rights already established during times of salutary neglect.

Early American colonists were learned in a career of strict regulations.

Reader on iOS and macOS
The philosophy of liberty
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Our Founding Fathers' experiences emphasized the importance they placed on rights and limited government. With few checks on authority, Britain imposed heavy taxes on colonists after the Seven Years War, a change from previous salutary neglect. The colonists' protests emphasized their pressing need for individual freedom and limited government.

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Early American colonists were amazed the era by on-time regulations.
Safari Reader

Reader on watchOS
Enclose main content in an `<article>` element.
Use `itemprop` to apply semantic attributes
Safari Reader

Use **strong** and *em* elements for semantically styled text
Use `<strong>` and `<em>` elements for semantically styled text.
Our Founding Fathers's experiences emphasized the importance on rights and limited government. With few checks on authority, Britain im...
Safari Reader

Close

Our Founding Fathers' experiences emphasized the importance on rights and limited government. With few checks on authority, Britain im...
Early American colonists were painted into a corner by strict
Enclose quoted content in `<blockquote>` elements.
In Europe, charters of liberty have been granted by power. America has set the example of charters of power granted by
Use opengraph meta tags to provide additional context

```html
<meta property="og:image" content="https://...constitution.jpg">
<meta property="og:title" content="The philosophy of liberty">`
More Information

https://developer.apple.com/session239
Summary
A fast, open source web browser engine.

WebKit is the web browser engine used by...
Summary

How It Works

Optimizing Layout

WebKit
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WebKit is the web browser engine used by

Morning in Hanoi
Summary

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