- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

Content Management Seminar

by Nicholas de Havilland

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes
- 6. Does @supports replace them?

What is @supports?

- It is called a **feature query**, which include the familiar **@media** rule used in graceful degradation or progressive enhancement
- It helps the browser to test CSS rules, and determine if it can understand them without having to parse and apply the entire declaration block
- Similar to a media query, it allows the developer to create declarations that are <u>executed only if supported</u> by the browser, and ignored otherwise
- It is part of the CSS3 Conditional Rules Specification:

https://drafts.csswg.org/css-conditional-3

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

- The rule may be placed at the top level of your code or nested inside any other conditional at-rule
- It tests the condition specified in brackets and continues to parse if it returns a Boolean value of true, or ignores the entire block if false
- Multiple conditions can be combined using logical operators:
 AND, OR and NOT
- As a function to test whether combinator/pseudo selectors are supported (>, :first-child,...) or even custom properties

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

```
@supports (property: value) {
   selector { property: value; }
@media (orientation: landscape) {
   selector { property: value; }
   @supports (property: value) {
      selector { property: value; }
```

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it´
- 5. What are vendor prefixes
- 6. Does @supports replace them?

```
@supports not (property: value) {
@supports (property: value) and (property: value) {
@supports (property: value) or (property: value) {
@supports ((property: value) and (property: value))
                             or (property: value) {
```

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes
- 6. Does @supports replace them?

```
/* example 7: direct child combinator */
@supports selector(A > B) {
    selector { property: value; }
    ...
}

/* example 8: pseudo element selector */
@supports selector(::-webkit-scrollbar-thumb) {
    selector { property: value; }
    ...
}
```

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

When and why was it created?

- Feature detection was originally carried our client-side using JavaScript, not implemented in CSS
- It was not available as a CSS rule in major browsers until 2013, with versions of Firefox from 22, and Chrome from 28.
- Implementation in CSS increases website performance by eliminating the additional JavaScript polyfills
- Allows <u>layout enhancement</u> by placing less reliably supported features after the more widely supported fallbacks
- This provides a robust and modular way of <u>catering for</u> accessibility in differing platforms and form factors

When and why was it created?

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

```
selector { property: value; }
@supports (display: flex) {
   selector { property: value; }
@supports (display: grid) {
   selector { property: value; }
```

When and why was it created?

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

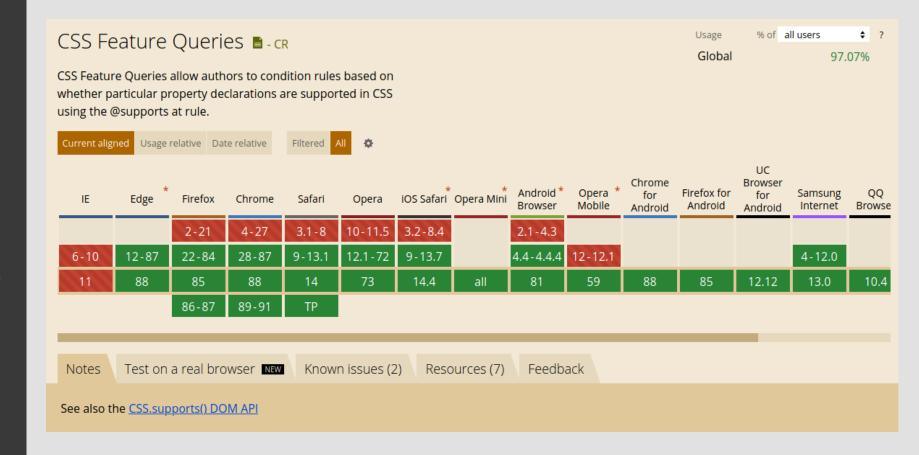
```
/* flex layout only if there is no grid support */
@supports (display: flex) and not (display: grid) {
    selector { property: value; }
    ...
}

/* grid layout */
@supports (display: grid) {
    selector { property: value; }
    ...
}
```

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

Which browsers use it?

@supports (condition) { ... } at 97% support



- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

Which browsers use it?

@supports selector(type) { ... } at 72% support



- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

What are vendor prefixes?

- Vendor prefixes are experimental or non-standard CSS properties and JavaScript APIs
- They are used during the development and finalisation phases of new feature implementation
- Most familiar will be the commonly seen browser prefixed values for Firefox (-moz-) and Chrome (-webkit-)
- Best practice is to list the vendor prefixed declarations first,
 and then the standardised W3C release version

What are vendor prefixes?

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

```
/* example: typical ordering *
div.example {
    -webkit-border-radius: 6px;
    -moz-border-radius: 6px;
    -ms-border-radius: 6px;
    -o-border-radius: 6px;
    border-radius: 6px;
}
```

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

What are vendor prefixes?

- This ordering ensures that the release version takes precedence over the experimental version
- This prevents any differences between the two from causing the release version to be superseded in use
- They were supposed to allow developers to test features that are not officially supported and not relied upon in production
- However, web developers have been using them on public sites, so vendors are considering discontinuing their use

Does @support replace them?

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

- Not necessarily: while @supports could reduce their use, they serve very different purposes.
- They can be used together to test if the final implementation of a feature is complete, and if not, apply the prefixed versions
- This is most useful when there are many prefixes which can be isolated for future removal to lighten code

Does @supports replace them?

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

```
div.example {
   border-radius: 6px;
@supports not (border-radius) {
   div.example {
      -webkit-border-radius: 6px;
      -moz-border-radius: 6px;
      -ms-border-radius: 6px;
      -o-border-radius: 6px;
```

- 1. What is @supports?
- 2. What is the syntax?
- 3. When and why was it created?
- 4. Which browsers use it?
- 5. What are vendor prefixes?
- 6. Does @supports replace them?

The End!

Questions?