LESSON 11



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Modern CSS

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HTML & CSS

LESSON 11

Modern CSS

Custom properties, dark mode, nesting, :has(), container queries and logical properties

Custom Properties

style.css

```css
:root {
  --brand: hsl(185 81% 29%);
  --text: #1d2b2f;
  --radius: 12px;
  --space: 1rem;
}
.btn {
  background: var(--brand);
  border-radius: var(--radius);
  padding: var(--space) calc(var(--space) * 2);
}
```

- Custom properties, also called CSS variables, start with two dashes. Define them on root …
- Change one value and the whole site updates. They can even be changed live with JavaScript.

01

Dark Mode

style.css

```
:root {
  color-scheme: light dark;
  --bg: #ffffff;  --text: #1d2b2f;
}
@media (prefers-color-scheme: dark) {
  :root { --bg: #0f1a1c;  --text: #e8f1f2; }
}
body { background: var(--bg); color: var(--text); }
```

- The prefers-color-scheme media query detects the user's system setting. Redefine your color ...
- color-scheme tells the browser to darken form controls and scrollbars too.

02

Native Nesting

style.css

```
.card {
  padding: 1rem;
  border-radius: var(--radius);

  & h3 { margin-top: 0; }
  &:hover { box-shadow: 0 8px 24px rgb(0 0 0 / 0.15); }

  @media (min-width: 640px) {
    padding: 2rem;
  }
}
```

- CSS now supports nesting, which used to need Sass. Write child rules inside the parent, and …
- Keep nesting shallow, two or three levels, so selectors stay simple.

03

:has() and Container Queries

style.css

```css
.card:has(img) { padding-top: 0; }
form:has(:invalid) button { opacity: 0.5; }

.card-wrap { container-type: inline-size; }
@container (min-width: 400px) {
  .card { display: grid; grid-template-columns: 150px 1fr; }
}
```

- :has is the parent selector developers wanted for twenty years: style an element based on …
- Container queries change a component's layout based on the size of its container, not the …

04

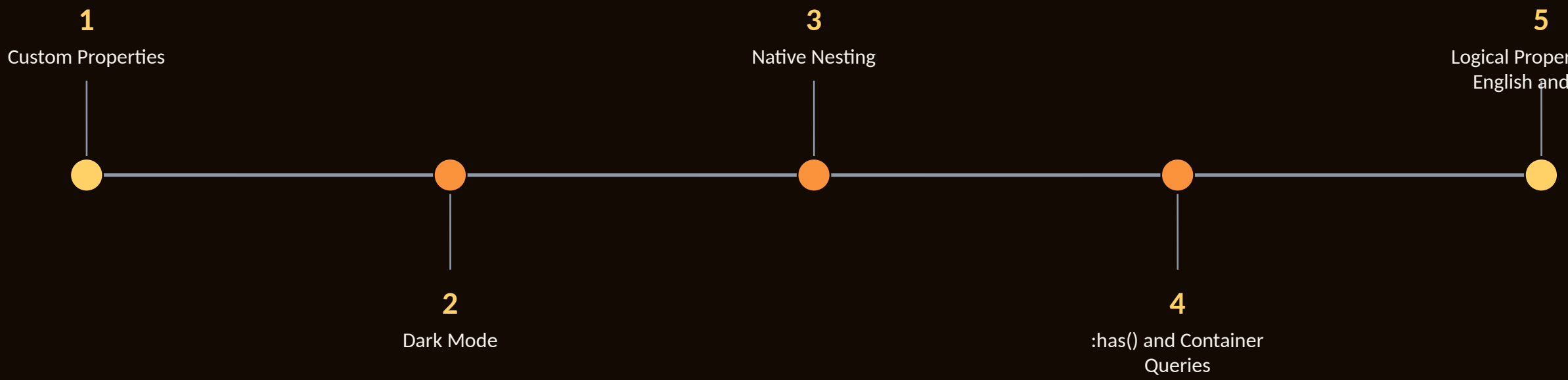
Logical Properties for English and Dari

Physical ✕	Logical ✓	In Dari
`margin-left`	`margin-inline-start`	right side
`padding-right`	`padding-inline-end`	left side
`text-align: left`	`text-align: start`	right
`width / height`	`inline-size / block-size`	same

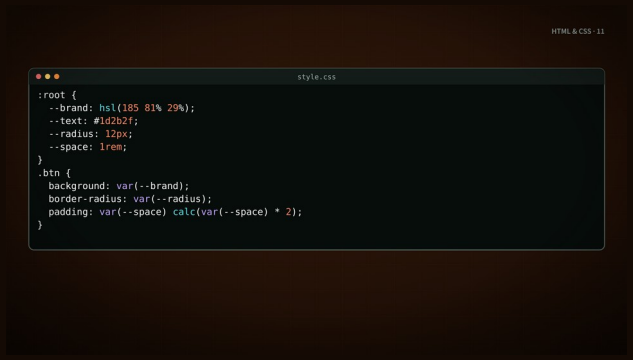
- Physical properties like margin-left break in right-to-left languages. Logical properties …
- Use inline for the text direction and block for the vertical direction. One stylesheet then …

05

Lesson Map


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:has() and Container Queries
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Logical Properties for English and Dari

Sources and Further Reading





Thank you for watching

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