

Angular View Encapsulation Strategies

2. Shadow DOM Encapsulation (`ViewEncapsulation.ShadowDom`)

What It Is:

- Uses native Shadow DOM.

Key Features:

- True encapsulation using `#shadow-root`.
- Styles do not leak or get influenced by global styles.

Pros:

- Full style isolation.
- Best for reusable component libraries.

Cons:

- Limited browser support (e.g., IE11 not supported).
- Debugging Shadow DOM can be harder.

3. None (`ViewEncapsulation.None`)

What It Is:

- Disables encapsulation completely.

Key Features:

- Styles are applied globally across the app.
- No special DOM annotations or styling isolation.

Pros:

- Ideal for global themes or prototyping.
- Lightest rendering method.

Cons:

- High risk of style conflicts.
- Hard to maintain large-scale applications.

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Summary Table

Encapsulation	Isolation	Clash Risk	Shadow DOM	Use Case
Emulated	Scoped	Low	No	Default, All browsers
Shadow DOM	True	None	Yes	Web Components, Libs
None	None	High	No	Global themes, Small apps