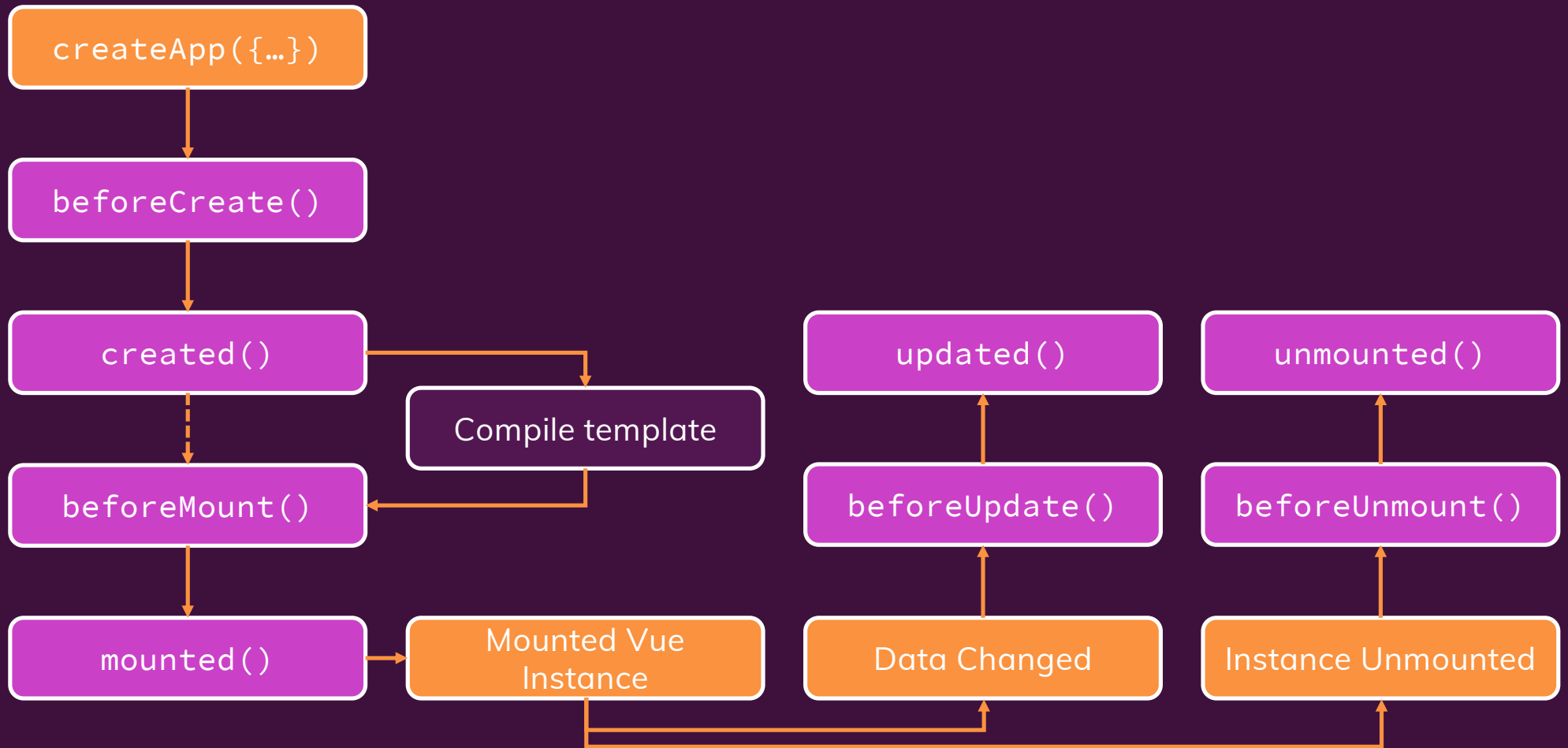


Vue Instance Lifecycle



How Vue Updates The DOM

Vue Instance

Stores data, computed properties, methods, ...

title: 'Hello!',
text: 'Not the title'

Data and computed properties may change (e.g. because of user input)

title: 'Hi there!',
text: 'Not the title'



Browser DOM

Vue-controlled template is rendered in the DOM

```
<h2>Hello!</h2>  
<p>Not the title</p>
```

Updates should be reflected, but Vue should **not** re-render everything

```
<h2>Hi there!</h2>  
<p>Not the title</p>
```

Possible solution: compare old DOM values with new ones and update accordingly



How Vue Updates The DOM

Vue Instance

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Virtual DOM

JS-based DOM which exists only in memory

{el: 'h2', child: 'Hello!'}, ...

Updates are made to the **virtual DOM first**, only differences are then rendered to the real DOM

Browser DOM

Vue-controlled template is rendered in the DOM

<h2>Hello!</h2>
<p>Not the title</p>

Updates should be reflected, but Vue should **not** re-render everything

<h2>Hi there!</h2>
<p>Not the title</p>