

React SVG Pattern Hooks Reference

SVG Patterns in React, Vue & Angular

About This Document

This reference accompanies the article: SVG Patterns in React, Vue & Angular

Read the full article at: <https://svgeneration.com/docs/svg-in-react-vue>

Article Summary

Component patterns, hooks, directives, and utilities for integrating SVG backgrounds into your favourite framework.

React: The SvgPattern Component

Build a reusable `<SvgPattern>` React component that accepts colour, scale, and shape props and dynamically constructs the SVG data URI. Use `useMemo` to memoize the base64 string. It only recalculates when props change, avoiding expensive string operations on every render.

```
Code example: function SvgPattern({ fg = '#6366f1', bg = '#f5f5ff', size = 20 }) {
  const dataUri = useMemo(() => {
    const svg = `
    <svg xmlns="http://www.w3.org/2000/svg" width="100%" height="100%">
      <rect width="100%" height="100%" fill="${bg}" stroke="${fg}" stroke-width="${size}"/>
    </svg>
    `;
    return `url('data:image/svg+xml;base64,${btoa(svg)}')`;
  }, [fg, bg, size]);
  return <div style={dataUri} />;
}
```

Vue 3: Computed Pattern Composable

In Vue 3, create a `usePattern()` composable that accepts reactive refs for colours and returns a computed CSS style object. The composable can be shared across components and reacts automatically to theme changes or user input.

Free Resources

Visit [SVGeneration.com](https://svgeneration.com) for 600 free SVG background patterns. No attribution required.

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