@wordpress/style-runtime

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Runtime helpers for registering styles and injecting them into one or more documents.

CSS module imports are evaluated as JavaScript module side effects. By default, that means generated style tags are inserted into the root document. This works for most screens, but it does not cover styles for components rendered inside another document, such as an iframe canvas.

`@wordpress/style-runtime` keeps a shared registry of style text and target documents. Build tooling can register compiled styles when CSS modules are imported, while host components can register additional documents that should receive those styles.

Usage

Generated CSS module output registers styles with a stable hash:

```
import { registerStyle } from '@wordpress/style-runtime';

registerStyle( 'style-hash', '.example{color:red;}' );
```

Hosts that render package components into another document register that document as a style target:

```
import { registerDocument } from '@wordpress/style-runtime';

const unregisterDocument = registerDocument( iframe.contentDocument );
```

```
// Later, when the document is no longer used:
unregisterDocument();
```

When a document is registered, all previously registered styles are injected into it. Future styles are injected into every registered document.

The runtime coordinates separately bundled copies of this package through a reserved `globalThis.__wpStyleRuntime` object. Consumers should use the public APIs below instead of reading or writing that global directly.

API

`registerStyle`

Registers CSS text under a stable hash and injects it into all registered documents. The hash is used to deduplicate style tags, so the same style is not inserted more than once per document.

Registered styles are retained for the lifetime of the page so they can be replayed into documents that are registered later.

```
import { registerStyle } from '@wordpress/style-runtime';

registerStyle( 'style-hash', '.example{color:red;}' );
```

`registerDocument`

Registers a document as a style injection target and returns a cleanup function. Documents are reference-counted, so the same document can be registered by multiple providers and will only stop receiving future styles after every registration has been cleaned up.

```
import { registerDocument } from '@wordpress/style-runtime';

const cleanup = registerDocument( document );

cleanup();
```

Contributing to this package

This is an individual package that’s part of the Gutenberg project. The project is organized as a monorepo. It’s made up of multiple self-contained software packages, each with a specific purpose.

The packages in this monorepo are published to npm and used by WordPress as well as other software projects.

To find out more about contributing to this package or Gutenberg as a whole, please read the project’s main contributor guide.

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