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Vite Plugin D2 Project

A Vite plugin to convert D2 diagrams to Images

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A Vite plugin that converts [D2](#) diagram files to SVG during the build process.

Installation

```
npm install --save-dev vite-plugin-d2
```

Make sure you have D2 installed globally:

```
npm install -g d2
```

Or follow the official installation instructions at: <https://d2lang.com/tour/install/>

Usage

Add the plugin to your `vite.config.js`:

```
import vitePluginD2 from 'vite-plugin-d2';

export default {
  plugins: [
    vitePluginD2({
      // Options (all optional).
      theme: 0,           // D2 theme (number).
      layout: 'dagre',    // Layout engine.
      sketch: false,      // Enable sketch mode.
      dark: false,        // Enable dark mode.
      pad: 10,            // Padding.
      diagramsDir: './assets/diagrams', // Input directory for D2 files.
      outputDir: null,    // Custom output dir (uses Vite's outDir if null).
      outputFormat: 'svg', // Output format (currently only 'svg').
      verbose: false      // Enable verbose output logging.
    })
  ]
};
```

How it works

The plugin searches for `.d2` files in the specified directory (`diagramsDir`, defaults to `./assets/diagrams`). During the build process, this plugin will:

1. Find all `.d2` files in the specified directory.
2. Convert them to SVG using the D2 CLI.
3. Place the generated SVG files in the output directory.

For example, if you have:

- `./assets/diagrams/architecture.d2`

The plugin will generate:

- `./dist/architecture.svg` (or in your configured output directory).

Output Directory Configuration

By default, the plugin will output the SVG files to Vite's configured build output directory (`build.outDir`, which defaults to `dist`).

You can customize the output location by setting the `outputDir` option. The relative structure of files within the `diagramsDir` will be preserved in the output.

Example D2 File

```
# Example D2 diagram.  
shape: sequence_diagram  
actor User  
app: Application  
db: Database  
  
User -> app: Request data  
app -> db: Query  
db -> app: Results  
app -> User: Display data
```

Options

Option	Type	Default	Description
theme	number	0	D2 theme number

Option	Type	Default	Description
layout	string	'dagre'	Layout engine (e.g., 'dagre', 'elk')
sketch	boolean	false	Enable sketch/hand-drawn mode
dark	boolean	false	Enable dark mode
pad	number	10	Padding around the diagram
diagramsDir	string	'./assets/diagrams'	Directory containing D2 files
outputDir	string null	null	Custom output directory (uses Vite's build.outDir if null)
outputFormat	string	'svg'	Output format (currently only 'svg' is supported)
verbose	boolean	false	Enable verbose output logging

Advanced Usage

Custom Input and Output Directories

You can specify custom directories for your D2 files and the generated SVGs:

```
vitePluginD2({
  diagramsDir: './src/diagrams', // Custom input directory.
  outputDir: './public/images',  // Custom output directory.
  verbose: true                  // Enable detailed logging.
})
```

Styling Options

Customize the appearance of your diagrams:

```
vitePluginD2({
  theme: 3,           // Use theme number 3.
  sketch: true,       // Enable sketch mode for hand-drawn appearance.
  dark: true,         // Enable dark mode.
  pad: 20             // Add more padding (20px).
})
```

Troubleshooting

If you encounter issues:

1. Make sure D2 is properly installed and available in your PATH.
2. Check if the input directory exists and contains .d2 files.

3. Enable verbose mode (`verbose: true`) to see detailed logs.
4. Verify you have the necessary permissions to write to the output directory.

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