

# Express-Using Pug

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Here's a summary and an example of using Pug (formerly Jade) as a templating engine for Express.js:

## What is Pug?

Pug is a high-level, dynamic templating language that allows you to create HTML templates using JavaScript syntax. It's designed to be easy to learn and use, making it a popular choice among web developers.

## Why use Pug with Express?

Express.js is a lightweight Node.js framework for building web applications. By combining Pug with Express, you can separate your presentation logic from your application logic, making your code more maintainable and scalable.

## Example: Using Pug with Express

Here's an example of using Pug to render a simple HTML template:

### Directory structure

```
project/
|---- views/
|   |---- index.pug
|---- app.js
|---- package.json
```

### index.pug (template)

```
html
  head
    title My Page
  body
    h1 Welcome to my page!
    p This is a paragraph of text.
```

### app.js (Express server)

```
const express = require('express');
const app = express();

app.set('view engine', 'pug');

app.get('/', (req, res) => {
  res.render('index');
});

app.listen(3000, () => {
  console.log('Server listening on port 3000');
});
```

## How it works

1. In the example above, we set `express` as our templating engine using `app.set('view engine', 'pug');`.
2. We create a route for the root URL (`/`) using `app.get('/', (req, res) => { ... });`.
3. Inside the route handler function, we use `res.render()` to render the `index.pug` template.
4. When you navigate to `http://localhost:3000`, Pug will compile the template and replace placeholders with actual data.

## Pug syntax

Here are some basic Pug syntax elements:

- `html`: defines an HTML block
- `h1`, `p`: defines a heading or paragraph element, respectively
- `{}`: used for string interpolation (e.g., `h1= title` will render as `<h1>title</h1>`)
- `=`: assigns a value to a variable (e.g., `p This is a paragraph of text.`)
- `if`, `for`: used for conditional statements and loops, respectively

This example demonstrates the basic usage of Pug with Express. You can explore more advanced features and syntax in the official Pug documentation.