

1 多语言代码高亮测试

本文档用于测试 MD2LaTeX 改进版的多语言代码高亮功能。

1.1 JavaScript 代码

```
1 function greet(name) {  
2     console.log(`Hello, ${name}!`);  
3     return `Welcome, ${name}`;  
4 }  
5  
6 const user = "World";  
7 greet(user);
```

1.2 TypeScript 代码

```
1 interface User {  
2     name: string;  
3     age: number;  
4 }  
5  
6 function createUser(name: string, age: number): User {  
7     return { name, age };  
8 }  
9  
10 const user: User = createUser("Alice", 30);
```

1.3 Go 代码

```
1 package main  
2  
3 import "fmt"  
4  
5 func main() {  
6     name := "World"  
7     fmt.Printf("Hello, %s!\n", name)  
8 }
```

1.4 Rust 代码

```
1 fn main() {  
2     let name = "World";  
3     println!("Hello, {}!", name);  
4 }  
5  
6 struct User {  
7     name: String,  
8     age: u32,  
9 }
```

1.5 Vue.js 代码

```
1 <template>  
2   <div class="hello">  
3     <h1>{{ msg }}</h1>  
4   </div>  
5 </template>  
6  
7 <script>  
8 export default {  
9   name: 'HelloWorld',  
10  props: {  
11    msg: String  
12  }  
13 }  
14 </script>
```

1.6 YAML 配置

```
1 name: test-project  
2 version: 1.0.0  
3 dependencies:  
4   - express  
5   - mongoose  
6   - dotenv  
7 scripts:  
8   start: node index.js
```

```
9 test: jest
```

1.7 JSON 数据

```
1 {  
2   "name": "John Doe",  
3   "age": 30,  
4   "city": "New York",  
5   "skills": ["JavaScript", "Python", "Go"],  
6   "active": true  
7 }
```

1.8 Dockerfile

```
1 FROM node:16-alpine  
2 WORKDIR /app  
3 COPY package*.json ./  
4 RUN npm install  
5 COPY . .  
6 EXPOSE 3000  
7 CMD ["npm", "start"]
```

1.9 PowerShell 脚本

```
1 $name = "World"  
2 Write-Host "Hello, $name!"  
3  
4 Get-Process | Where-Object {$_.CPU -gt 100} | Select-Object Name, CPU
```

1.10 Kotlin 代码

```
1 fun main() {  
2     val name = "World"  
3     println("Hello, $name!")  
4 }  
5  
6 data class User(val name: String, val age: Int)
```

1.11 Swift 代码

```
1 import Foundation
2
3 func greet(name: String) {
4     print("Hello, \(name)!")
5 }
6
7 let name = "World"
8 greet(name: name)
```

1.12 测试总结

这个文档包含了多种现代编程语言的代码示例，用于验证 MD2LaTeX 改进版的语言映射功能：

所有这些语言都应该能够正确映射并生成可编译的 LaTeX 代码。