

1)Projekt erstellen

Ich habe ein Projekt erstellt und ESLint installiert

```
PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js> npm init -y
Wrote to C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\package.json:

{
  "name": "static-code-analysis",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js> npm install eslint --save-dev
>>

added 89 packages, and audited 90 packages in 5s

22 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js>
```

2)ESLint konfigurieren

Ich Initialisiere ESLint mit einer Konfigurationsdatei und stelle alles ein.

```
PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js> npx eslint --init
>>
You can also run this command directly using 'npm init @eslint/config@latest'.
✓ How would you like to use ESLint? · problems
✓ What type of modules does your project use? · esm
✓ Which framework does your project use? · none
✓ Does your project use TypeScript? · javascript
✓ Where does your code run? · browser
The config that you've selected requires the following dependencies:

eslint@9.x, globals, @eslint/js
✓ Would you like to install them now? · No / Yes
✓ Which package manager do you want to use? · npm
🌀Installing...

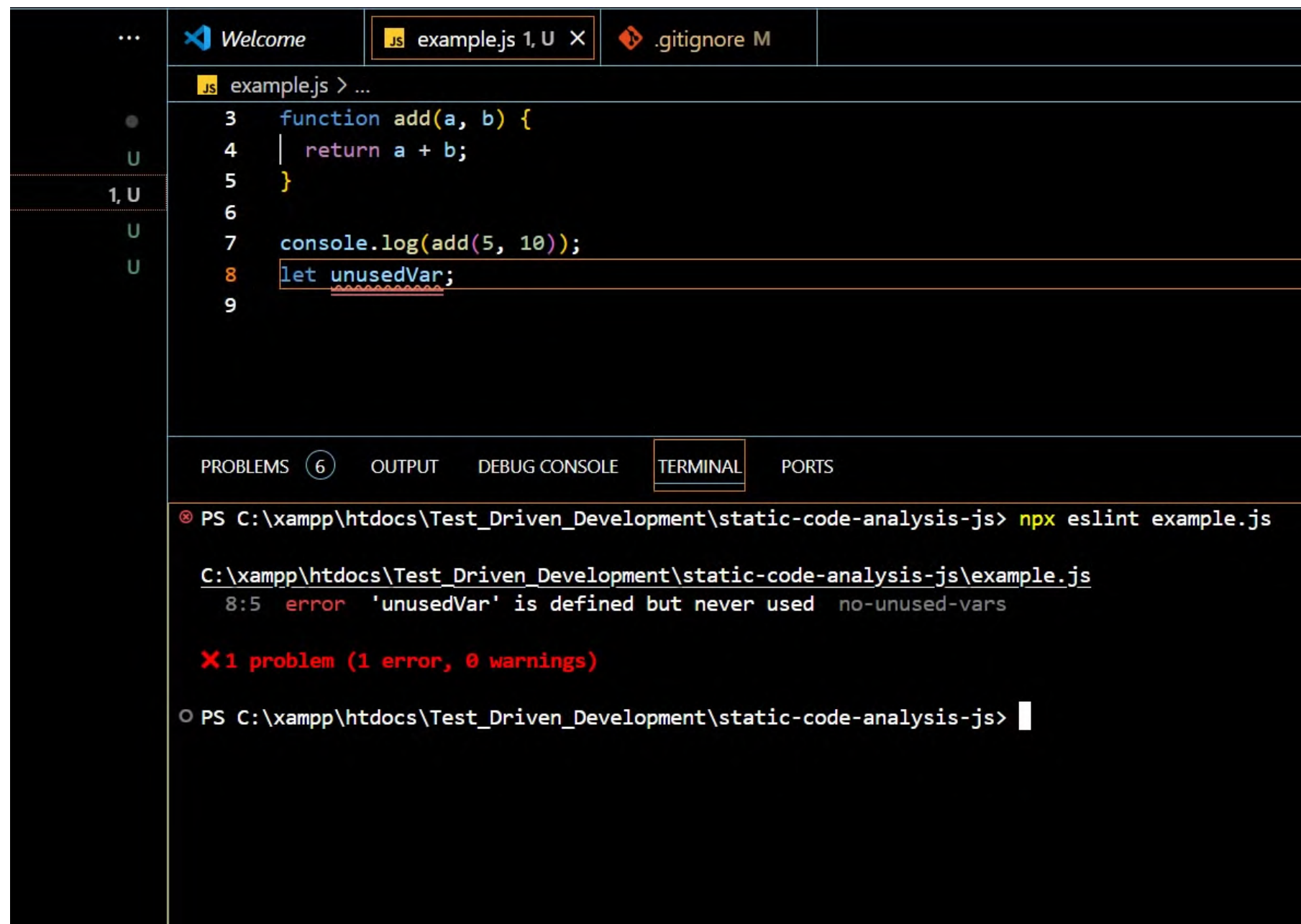
added 1 package, changed 1 package, and audited 91 packages in 2s

23 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
Successfully created C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\eslint.config.mjs file.
PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js>
```


3) ESLint ausprobieren

Ich habe ein Beispiel Code erstellt um auszuprobieren ob ESLint überhaupt funktioniert



The screenshot shows the VS Code editor with a file named `example.js`. The code contains a function `add(a, b)` that returns `a + b`, followed by a `console.log` call and an unused `let unusedVar;` declaration. The `TERMINAL` panel at the bottom shows the command `npx eslint example.js` being executed, resulting in an error: `8:5 error 'unusedVar' is defined but never used no-unused-vars`. The `PROBLEMS` panel shows 6 problems.

```
3 function add(a, b) {
4   | return a + b;
5 }
6
7 console.log(add(5, 10));
8 let unusedVar;
9
```

PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL PORTS

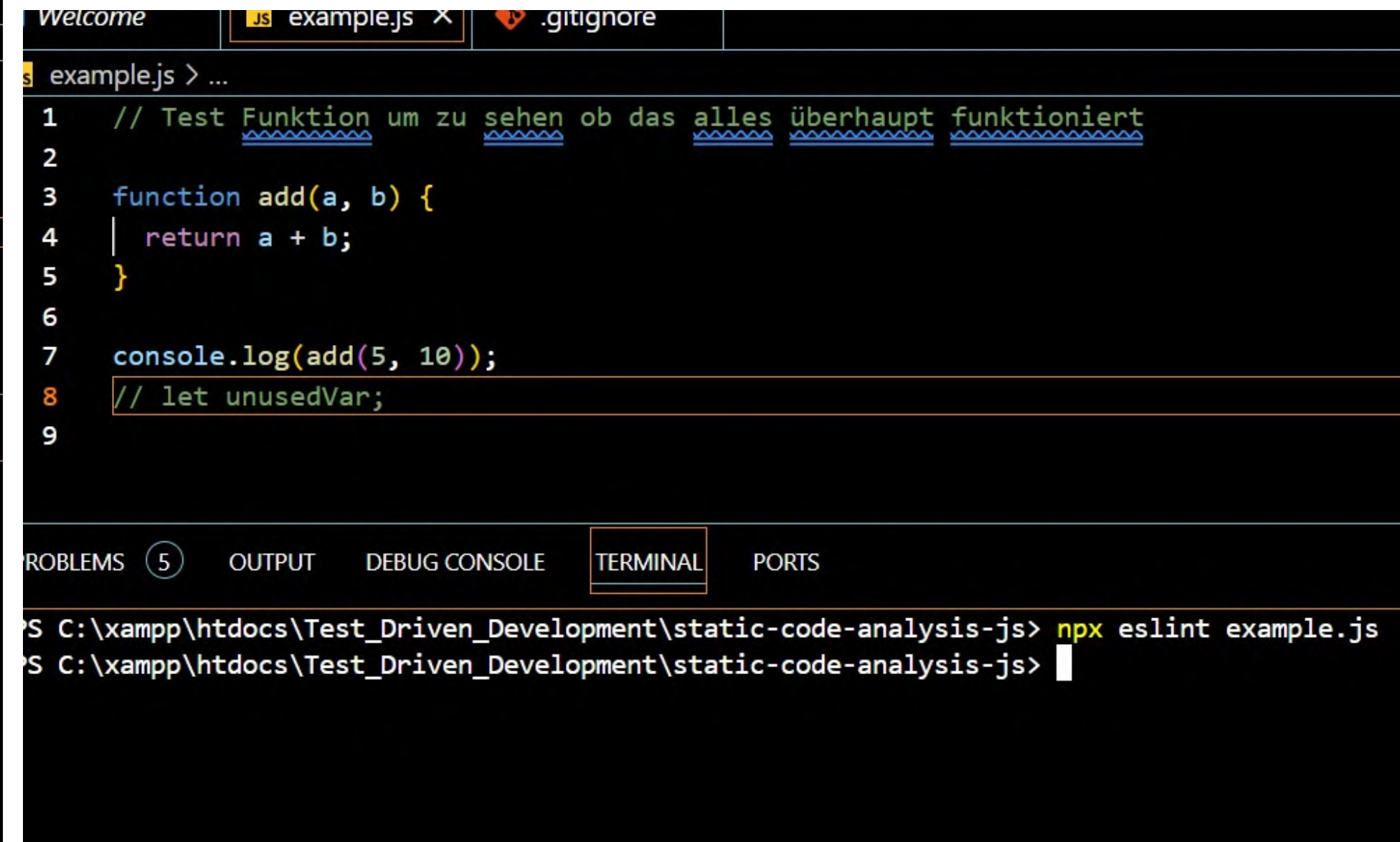
PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js> npx eslint example.js

C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\example.js

8:5 error 'unusedVar' is defined but never used no-unused-vars

✖ 1 problem (1 error, 0 warnings)

PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js>



The screenshot shows the VS Code editor with a file named `example.js`. The code contains a function `add(a, b)` that returns `a + b`, followed by a `console.log` call and a commented-out `let unusedVar;` declaration. The `TERMINAL` panel at the bottom shows the command `npx eslint example.js` being executed, resulting in an error: `8:5 error 'unusedVar' is defined but never used no-unused-vars`. The `PROBLEMS` panel shows 5 problems.

```
1 // Test Funktion um zu sehen ob das alles überhaupt funktioniert
2
3 function add(a, b) {
4   | return a + b;
5 }
6
7 console.log(add(5, 10));
8 // let unusedVar;
9
```

PROBLEMS 5 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js> npx eslint example.js

PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js>

4)Spiel auswählen und testen

```
C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\js\Schere-Stein-Papier.js
34:10  error  'unusedFunction' is defined but never used    no-unused-vars
38:5    error  'unusedVar' is assigned a value but never used no-unused-vars
40:6    error  Unexpected constant condition                  no-constant-condition
44:5    error  'computerChoice' is assigned a value but never used no-unused-vars
51:3    error  Unreachable code                             no-unreachable
62:9    error  'prop1' is assigned a value but never used    no-unused-vars
62:16   error  'prop2' is assigned a value but never used    no-unused-vars
68:1    error  'playerChoice' is not defined                 no-undef
69:5    error  'exampleVar' is assigned a value but never used no-unused-vars
73:10   error  'anotherFunction' is defined but never used   no-unused-vars
77:7    error  'anotherVar' is assigned a value but never used no-unused-vars
79:6    error  Unexpected constant condition                  no-constant-condition

X 12 problems (12 errors, 0 warnings)
```


5) Alle Fehler lösen

```
C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\js\Schere-Stein-Papier.js
  77:6  error  Unexpected constant condition  no-constant-condition
```

✖ 1 problem (1 error, 0 warnings)

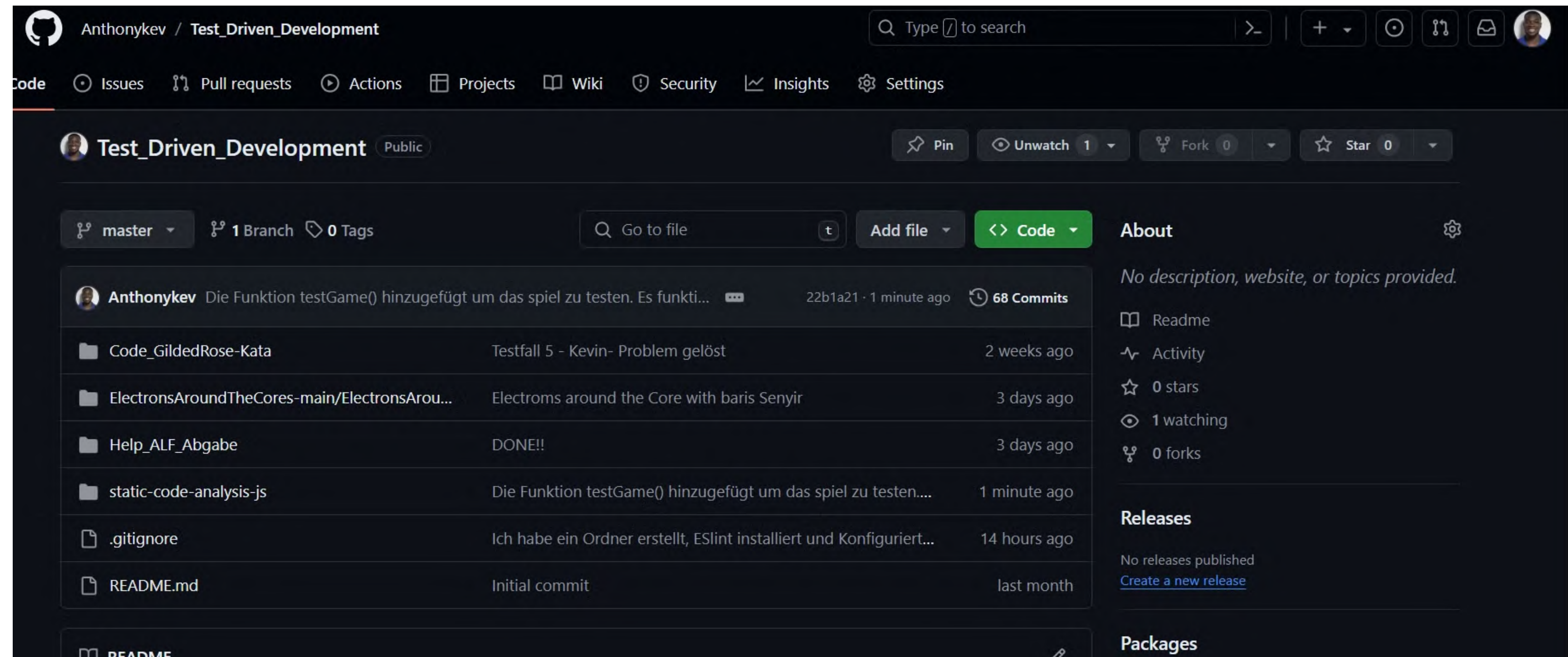
```
● PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js> cd js
● PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\js> npx eslint Schere-Stein-Papier.js
○ PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\js> 
```

Spiel testen

```
Node.js v20.11.1
● PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\js> node Schere-Stein-Papier.js
Hello, World
This is a debugging statement
You chose scissors, computer chose scissors. It's a draw!
Player: 0 | Computer: 0 | Draws: 1
You chose paper, computer chose rock. You win!
Player: 1 | Computer: 0 | Draws: 1
You chose scissors, computer chose paper. You win!
Player: 2 | Computer: 0 | Draws: 1
You chose paper, computer chose scissors. You lose!
Player: 2 | Computer: 1 | Draws: 1
You chose paper, computer chose rock. You win!
Player: 3 | Computer: 1 | Draws: 1
You chose rock, computer chose paper. You lose!
Player: 3 | Computer: 2 | Draws: 1
You chose rock, computer chose paper. You lose!
Player: 3 | Computer: 3 | Draws: 1
You chose rock, computer chose rock. It's a draw!
Player: 3 | Computer: 3 | Draws: 2
You chose rock, computer chose scissors. You win!
Player: 4 | Computer: 3 | Draws: 2
You chose rock, computer chose paper. You lose!
Player: 4 | Computer: 4 | Draws: 2
This is a missing semicolon
○ PS C:\xampp\htdocs\Test_Driven_Development\static-code-analysis-js\js> 
```

Github

Alles wurde in Github hochgeladen



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