

JavaScript Debuggen

BUGS

Syntax errors

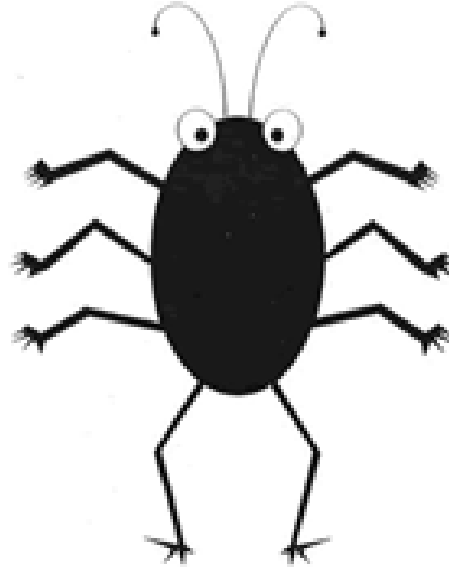
Variable type errors

Timing errors

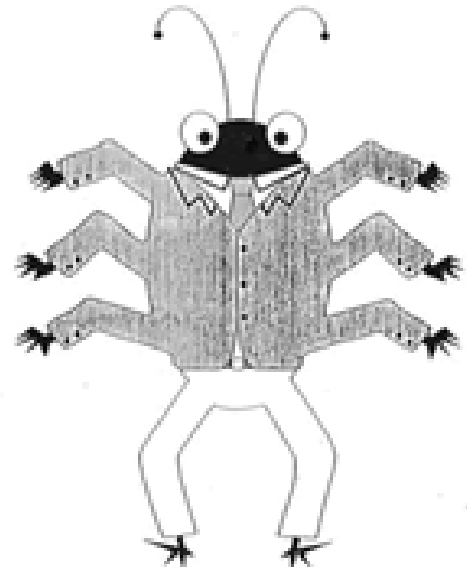
Logic errors

System errors

Unknown errors



BUG

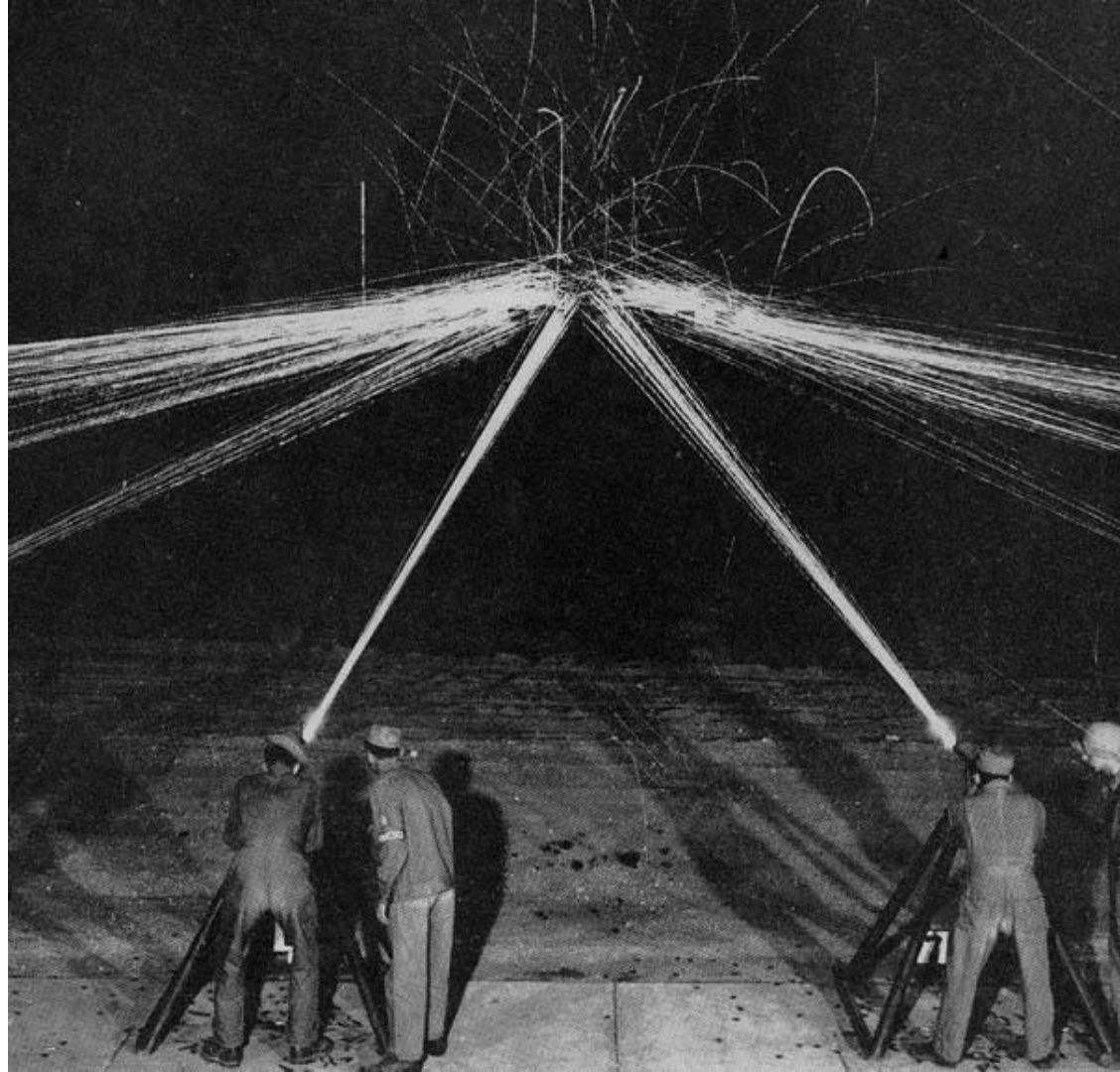


FEATURE

Tracing

Console

Tool output naar
de debugger:
`console.log()`



Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
  <script>
    let a = "1";
    let b = 2;
    let c = a+b;
    let answer = document.getElementById("answer") ;
    if (c == 3) {
      asnwer.innerHTML = c;
    }
  </script>
```

Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
  <script>
    let a = "1";
    let b = 2;
    let c = a+b;
    let answer = document.getElementById("answer")
    if (c == 3){
      console.log("kom ik in deze if?")
      asnwer.innerHTML = c;
    }
  </script>
```

Tracer: test met
console.log of
je in de "if" komt

Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
  <script>
    let a = "1";
    let b = 2;
    let c = a+b;
    let answer = document.getElementById("answer")
    console.log(c);
    if (c == 3){
      asnwer.innerHTML = c;
    }
  </script>
```

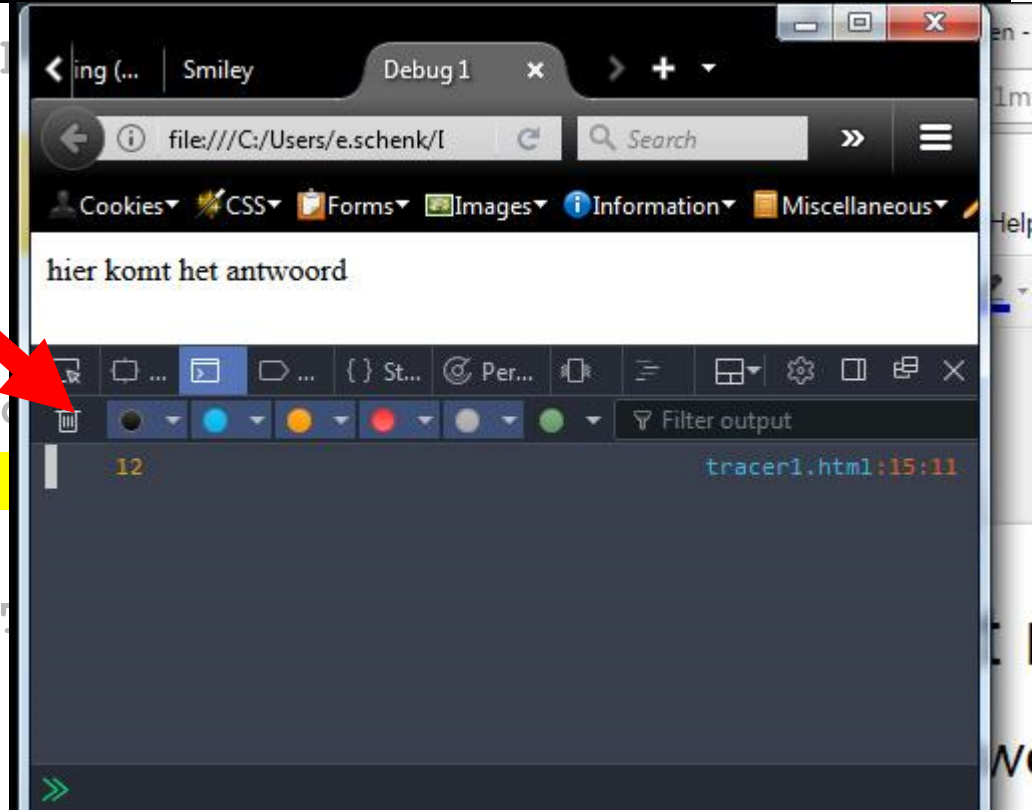
Tracer: bekijk met
console.log de
waarde van c

Tracer:

`console.log(c)`

geeft 12 . Dit had
3 moeten zijn.

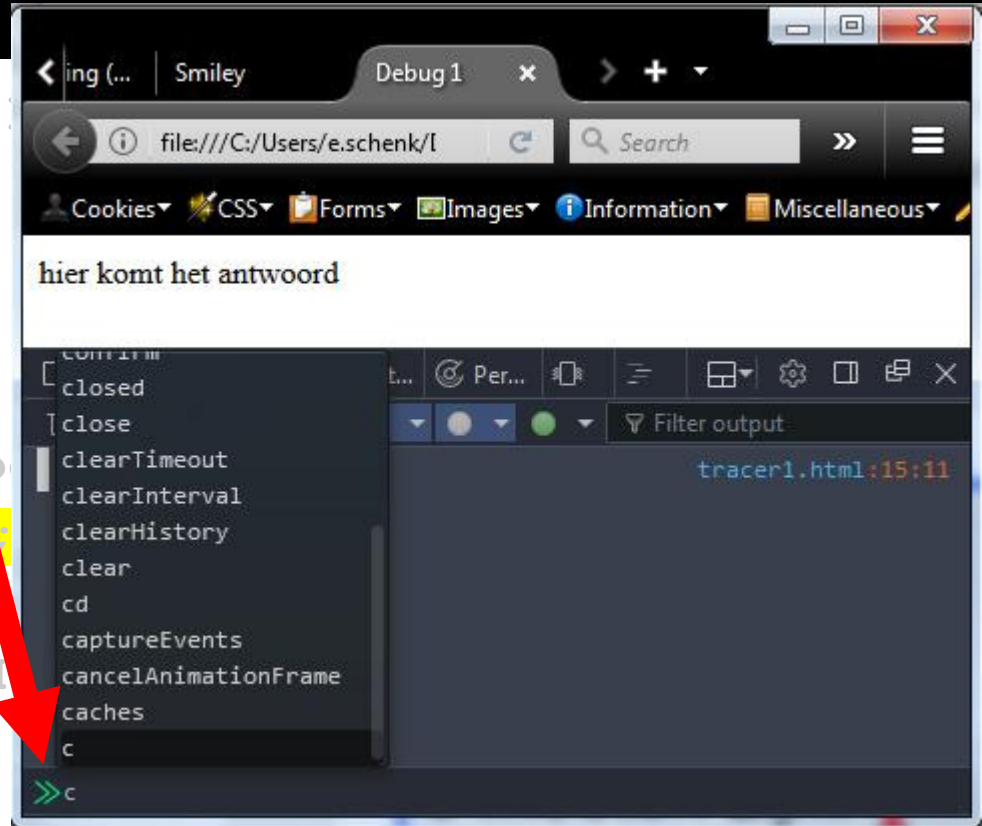
```
let answer = document.getElementById('answer');  
console.log(c);  
if (c == 3) {  
    answer.innerHTML = 'Correct!';  
}  
</script>
```



In de console, type c.

Hiermee vraag je de waarde van c op.

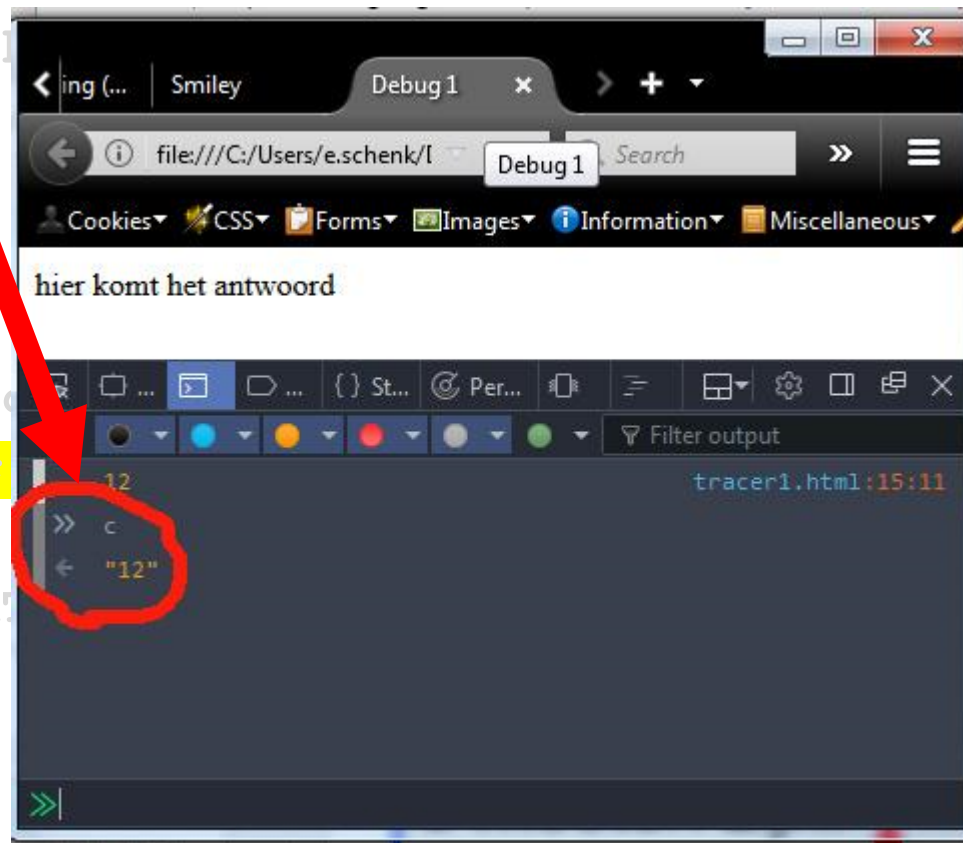
```
let c = a+b;  
let answer = c;  
console.log(c);  
if (c == 3){  
  answer.innerHTML = c;  
}  
</script>
```



In de console, type c.

De waarde van c is
"12". Let op stringquotes,
c is een string

```
let answer = document.querySelector('p')  
console.log(c);  
if (c == 3) {  
  answer.innerHTML = '3';  
}  
</script>
```



Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
```

```
<script>
```

```
let a = "1";
```

```
let b = 2;
```

```
let c = a+b;
```

```
let answer = document.getElementById("answer");
```

```
console.log(c);
```

```
if (c == 3){
```

```
    answer.innerHTML = c;
```

```
}
```

```
</script>
```

De waarde van c is
"12". c is een string

Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
```

```
<script>
```

```
let a = "1";
```

```
let b = 2;
```

```
let c = a+b;
```

```
let answer = document
```

```
console.log(c);
```

```
if (c == 3){
```

```
    answer.innerHTML = c;
```

```
}
```

```
</script>
```

Probleem a is "1".
a is een string

Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
```

```
<script>
```

```
let a = 1;
```

```
let b = 2;
```

```
let c = a+b;
```

```
let answer = document
```

```
console.log(c);
```

```
if (c == 3){
```

```
    answer.innerHTML = c;
```

```
}
```

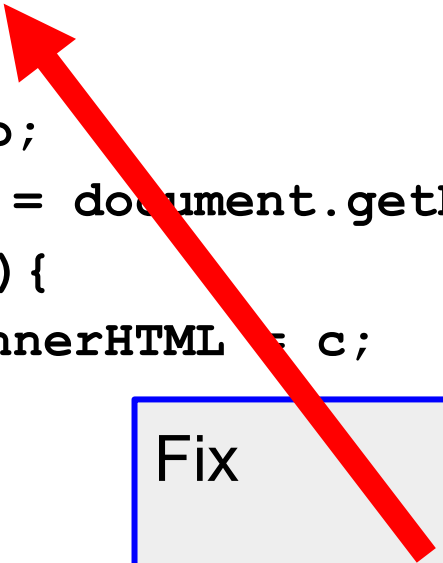
```
</script>
```

Fix

a is een integer

Script werkt niet

```
<div id = "answer">hier komt het antwoord</div>
  <script>
    let a = 1;
    let b = 2;
    let c = a+b;
    let answer = document.getElementById("answer") ;
    if (c == 3){
      asnwer.innerHTML = c;
    }
  </script>
```



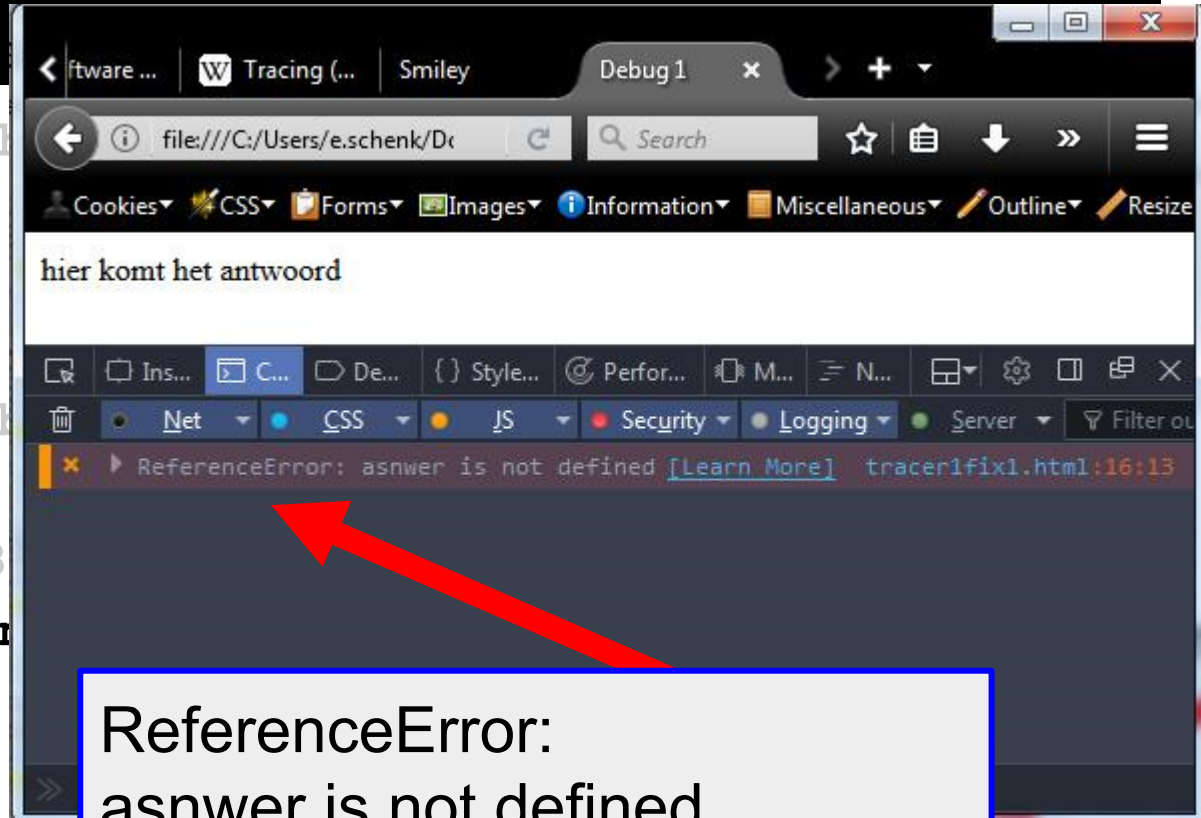
Fix

a is nu een integer

Script werkt niet

```
<div id = "answer">1</div>

<script>
  let a = 1;
  let b = 2;
  let c = a+b;
  let answer
  if (c == 3)
    asnwer.in
  }
</script>
```



ReferenceError:
asnwer is not defined

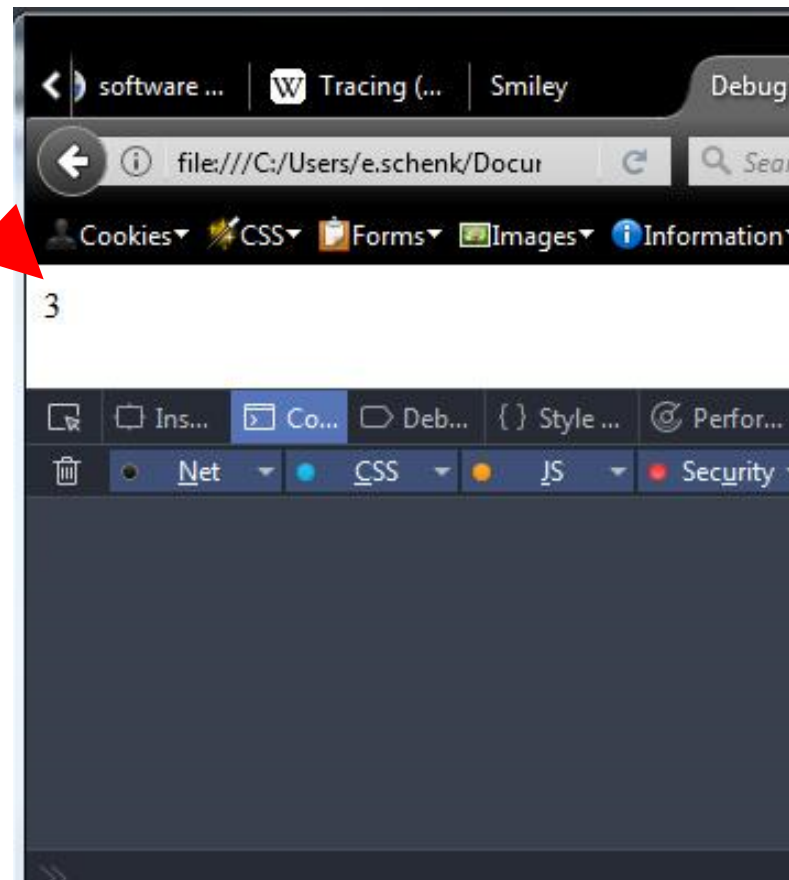
Script werkt!!!

Selection Find Packages Help

trac1fix1.html

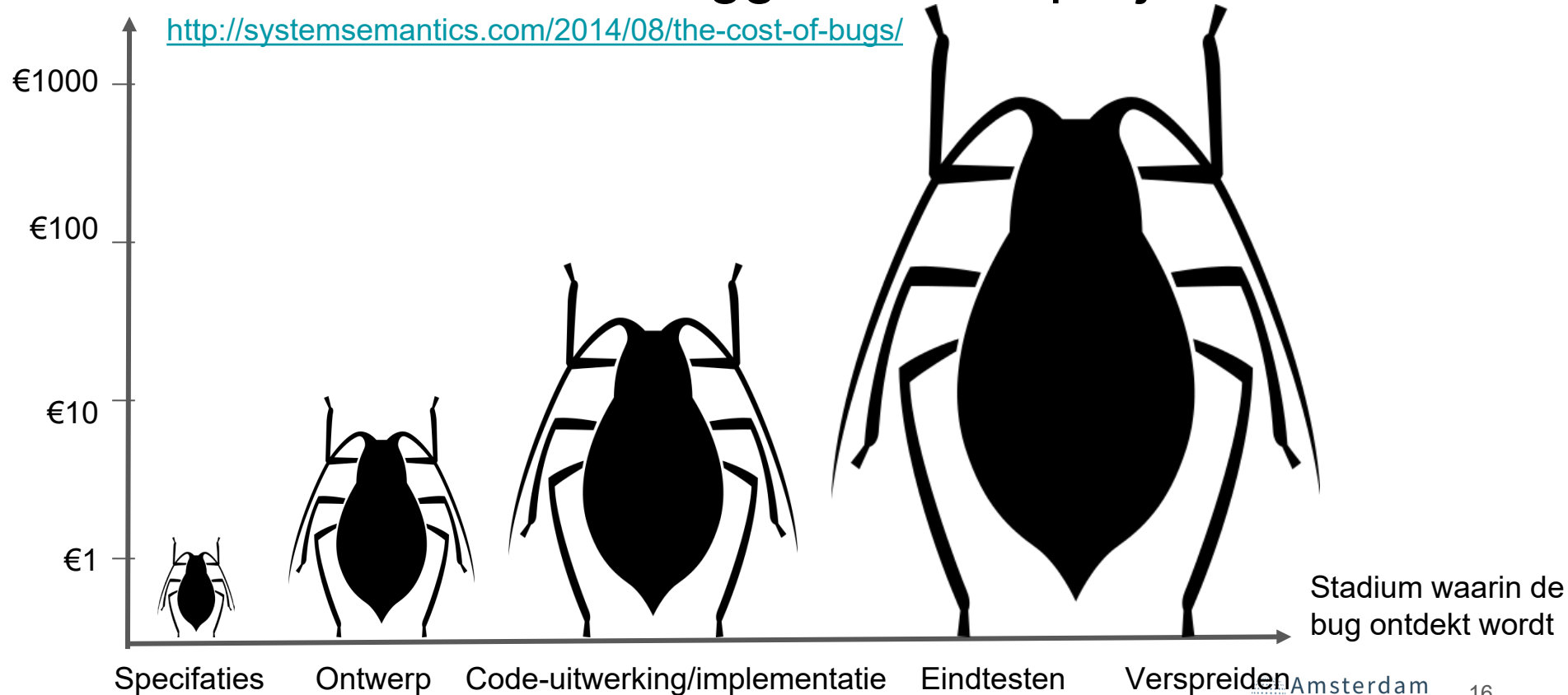
```
1 <!doctype html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <title>Debug 1</title>
6   </head>
7   <body>
8     <header></header>
9     <div id = "answer">hier komt het antwoord</div>
10    <script>
11      let a = 1;
12      let b = 2;
13      let c = a+b;
14      let answer = document.getElementById("answer")
15      if (c == 3){
16        answer.innerHTML = c;
17      }
18    </script>
19  </body>
20 </html>
```

fix1.html 19:11 LF UTF-8 HTML



De kosten van het debuggen in een project

<http://systemsemantics.com/2014/08/the-cost-of-bugs/>



Opdracht JavaScript debuggen 1

Download JS_debuggen_1.html, maak JS werkend

https://github.com/amsterdam-tech-academy/javascript_2022/tree/main/javascript_debuggen_1

Opdracht JavaScript debuggen 2

Download JS_debuggen_2.html, maak JS werkend

https://github.com/amsterdam-tech-academy/javascript_2022/tree/main/javascript_debuggen_1

