

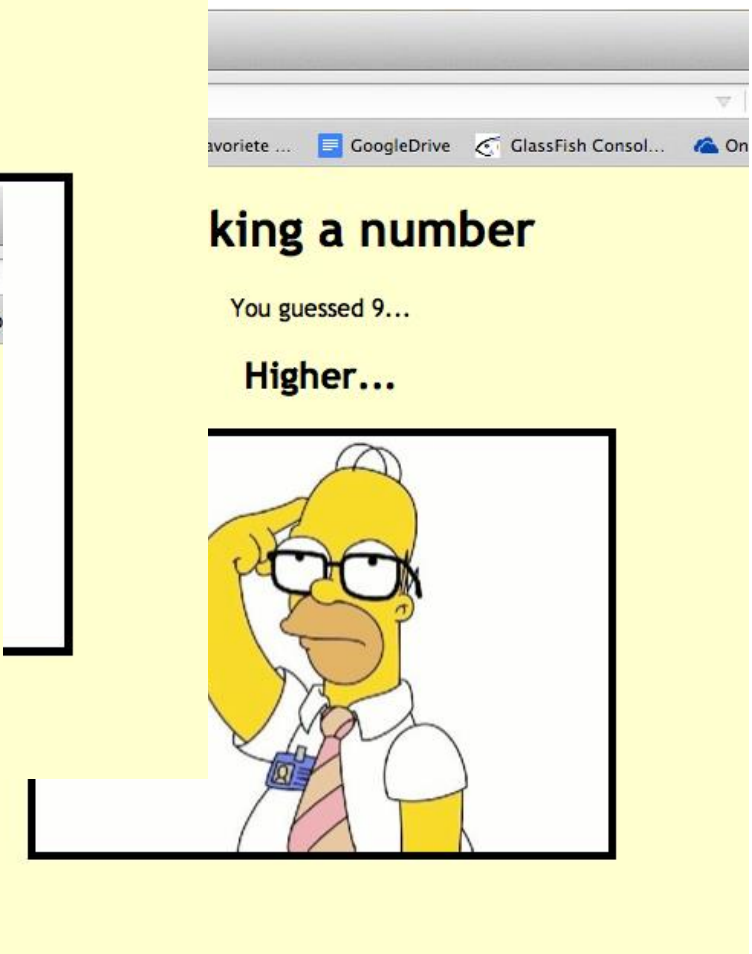
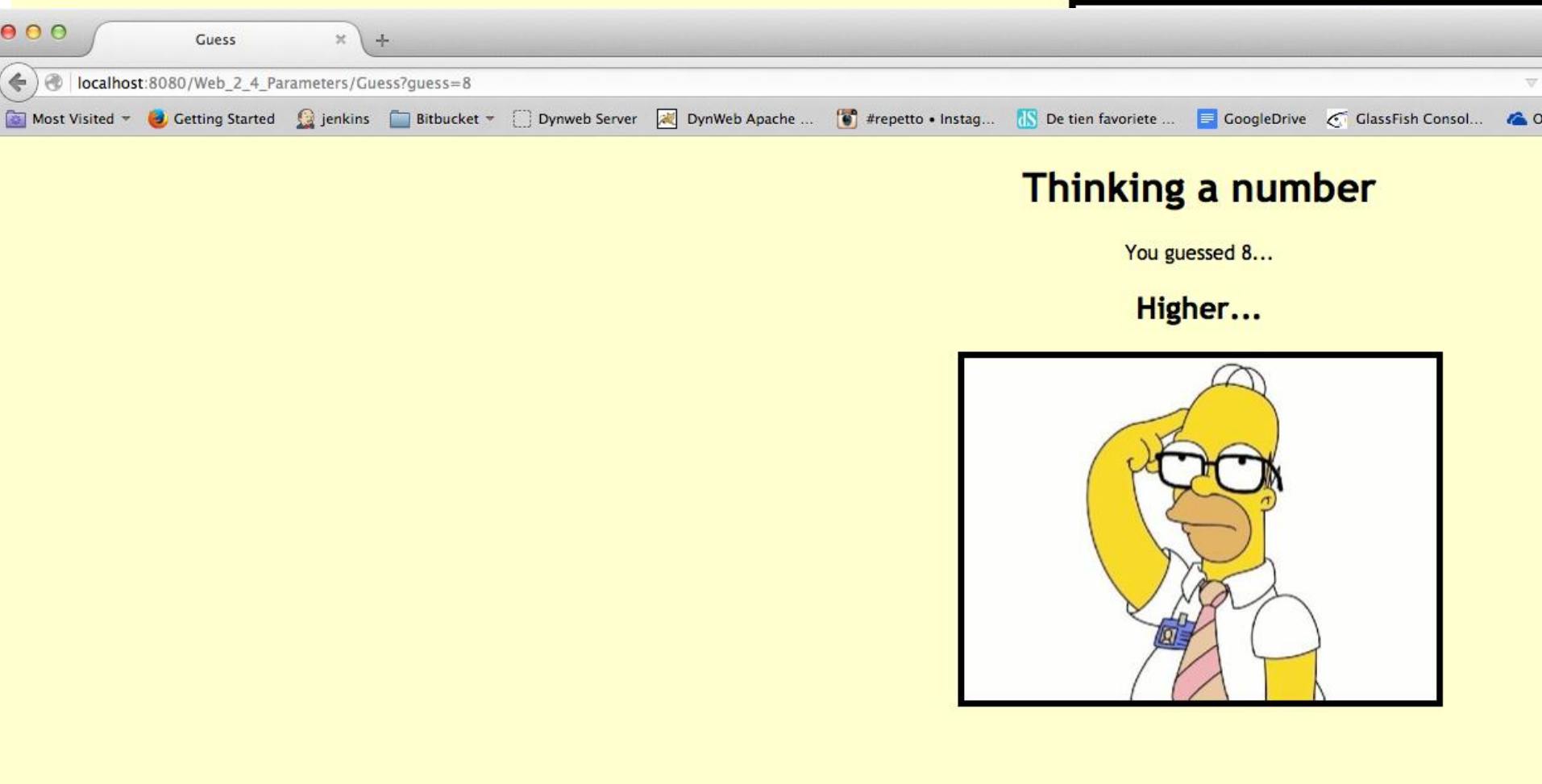
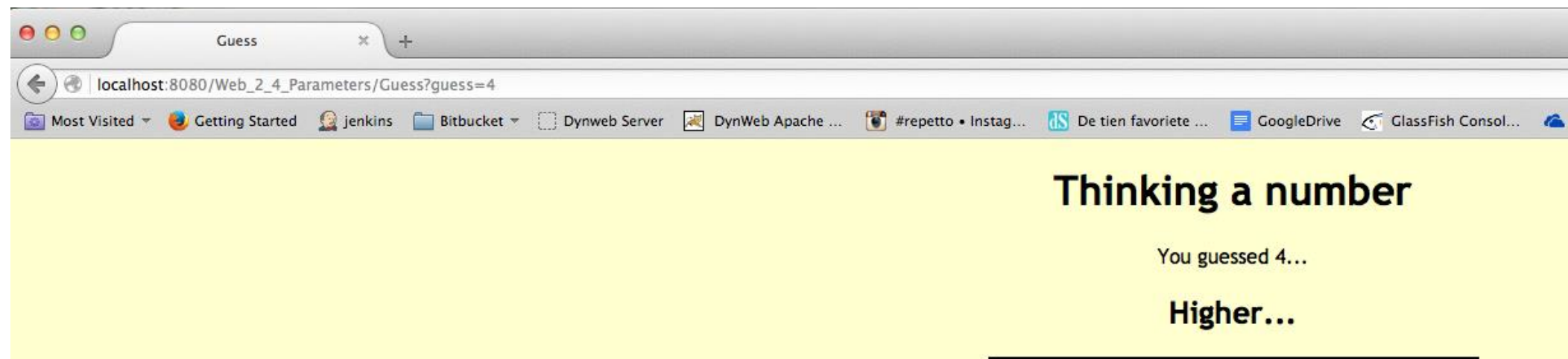
Web 2

Testen automatiseren

AGENDA

- Automatisatie





↓
automatiseren!



SELENIUM

- Selenium WebDriver
- Tool voor testen van websites.
- Bootst echte gebruiker na

Selenium automates browsers. That's it!
What you do with that power is entirely
up to you.



BROWSER

- iedere browser heeft zijn driver
- download driver in eenvoudig herkenbare map (bijv. /Applications/driver)
- let op juiste versie-combinatie selenium/webdriver/browser
- https://www.selenium.dev/documentation/en/getting_started_with_webdriver/browsers/
- beste ondersteuning voor Chrome

1. ADD DEPENDENCY

- In Pom.xml add Selenium Server:

```
<dependency>  
  <groupId>org.seleniumhq.selenium</groupId>  
  <artifactId>selenium-java</artifactId>  
  <version>3.141.59</version>  
</dependency>
```


2. DRIVER


- Zeg Selenium hoe communiceren met browser

```
System.setProperty("webdriver.chrome.driver", "/yourPath/chromedriver.exe");
```

- Maak driver object om browser te simuleren

```
WebDriver driver = new ChromeDriver();
```

- Opmerking: driver per type browser



FirefoxDriver,
ChromeDriver,
InternetExplorerDriver,
SafariDriver,

...

3. START URL

- `get ()` : navigeer naar URL
- Voorbeeld:

```
driver.get("http://localhost:8080/Les3_get_params_automation_war_exploded/");
```


4. ELEMENTEN VINDEN

- `findElement()` : HTML element zoeken
- `By` : Zoeken op id, name, css selector, ...
- Voorbeelden:

```
WebElement searchField =  
    driver.findElement(By.id("searchinput"));
```

```
WebElement welcomeParagraph =  
    driver.findElement(By.tagName("p"));
```

```
WebElement errorDiv =  
    driver.findElement(By.cssSelector(".error"));
```

5. USER INPUT

- `sendKeys()` : typen
`guessField.sendKeys("4");`
- `click()` : klikken
`goButton.click();`
- `clear(), ...`

6. CHECKING THE RESULT

- assert methods that you already know from JUnit

```
assertEquals("You guessed 4...",  
driver.findElement(By.id("result")).getText());
```

7. QUIT THE DRIVER

- quit method (closes the browser automatically)

```
driver.quit();
```

AGENDA

✓ Automatisatie

