



VISUAL TESTING TOOLBOX

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TEMPLATE MATCHING



image taken from the Appium docs

TEMPLATE MATCHING



- **OpenCV**

```
<dependency>  
  <groupId>org.openpnp</groupId>  
  <artifactId>opencv</artifactId>  
</dependency>
```

- **Code**

[BasePage.java](#), [OpenCVTemplateMatcher.java](#)

- **Usage**

Base 64 encoded String



`myPage.hasImage(template, threshold)`

LAYOUT TESTING



Google Search

I'm Feeling Lucky

Google offered in: [中文\(简体\)](#) [Melayu](#) [தமிழ்](#)

LAYOUT TESTING



SEARCH_FIELD:

below LOGO

*centered horizontally inside viewport
visible*

LOGO:

above SEARCH_FIELD

*centered horizontally inside viewport
width < 100% of SEARCH_FIELD/width
visible*

SEARCH_BUTTON:

*near LUCKY_BUTTON 20px left
visible*

- **Galen**

```
<dependency>  
  <groupId>com.galenframework</groupId>  
  <artifactId>galen-core</artifactId>  
</dependency>
```

- **Code**

BasePage.java, **Galen.java**

- **Page Object Model**

👉 `myPage.verify()`

OCR



- **Tesseract**

```
<dependency>  
  <groupId>net.sourceforge.tess4j</groupId>  
  <artifactId>tess4j</artifactId>  
</dependency>
```

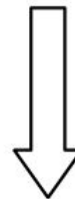
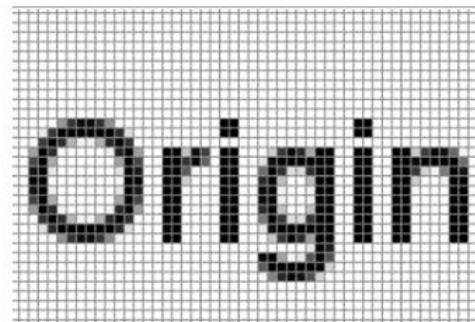
- **Code**

OCR.java

- **Usage**



`ocr.getText(webElement)`



OCR

'O'	'r'	'i'	'g'	'i'	'n'
0x4F	0x72	0x69	0x67	0x69	0x6E

THANK YOU!



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