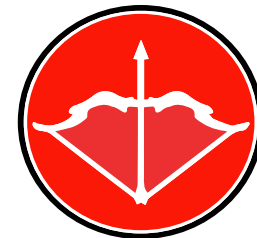
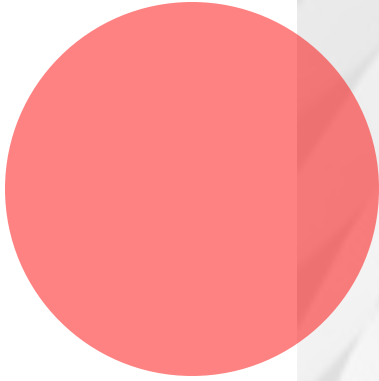




Test Automation (Regression testing)



VisCommerce
Visualization Powered Commerce



Contents

1 What ?

2 Why ?

3 How ?

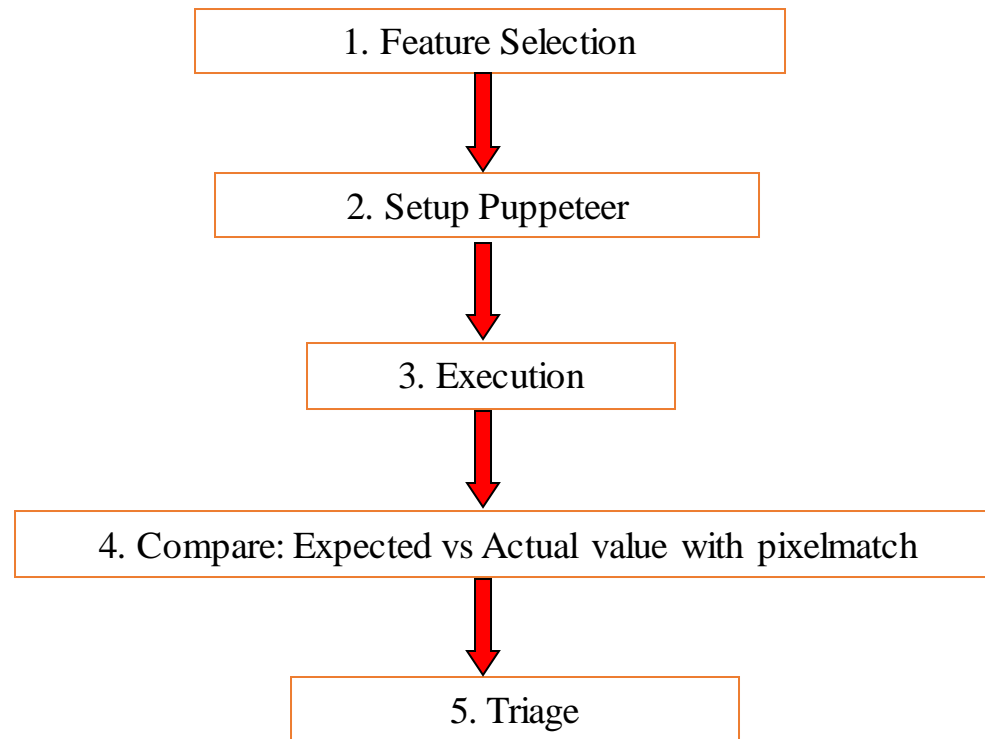
What ?

Regression testing ensures that changes have not broken old features.

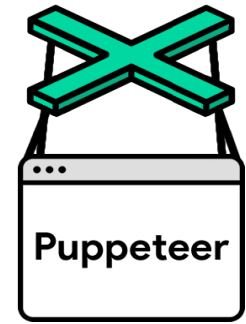
Why ?

- **Lower Cost**
- **Higher Quality**

How ?

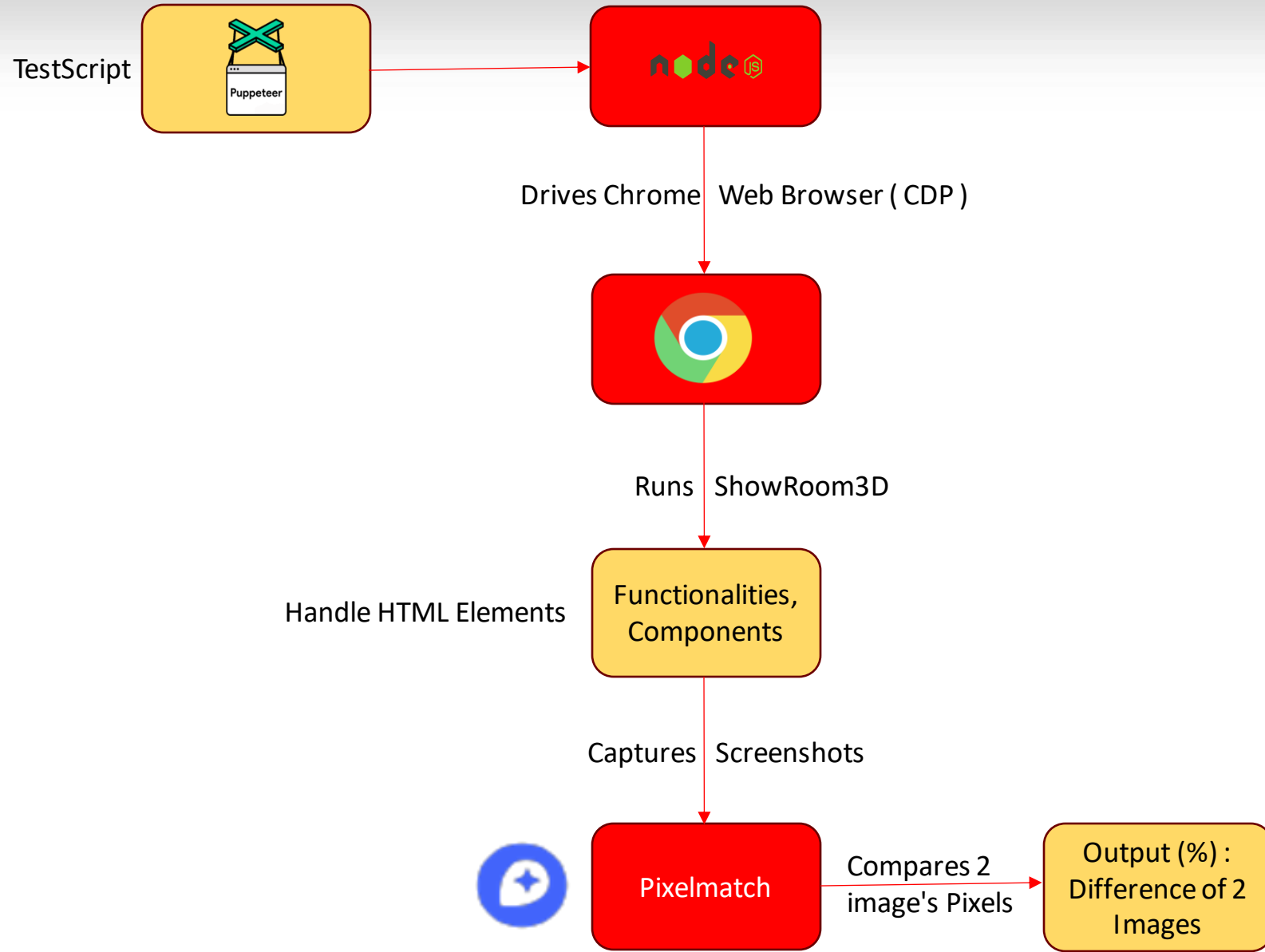
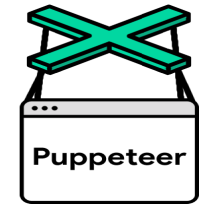


Puppeteer

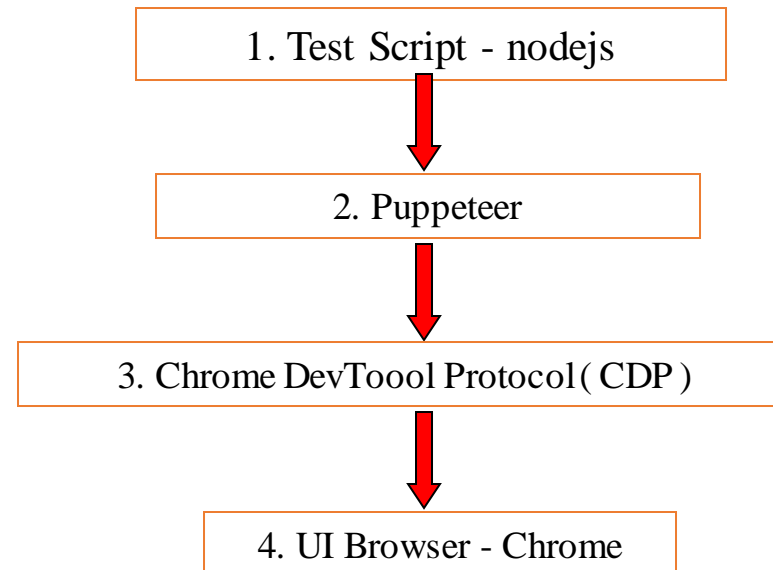
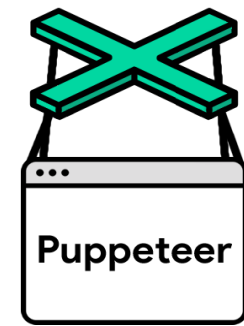


1. Control web browser (e.g. Google Chrome).
2. A nodejs library.
3. Adopted by threejs & model-viewer.

Puppeteer



Puppeteer



Pixelmatch

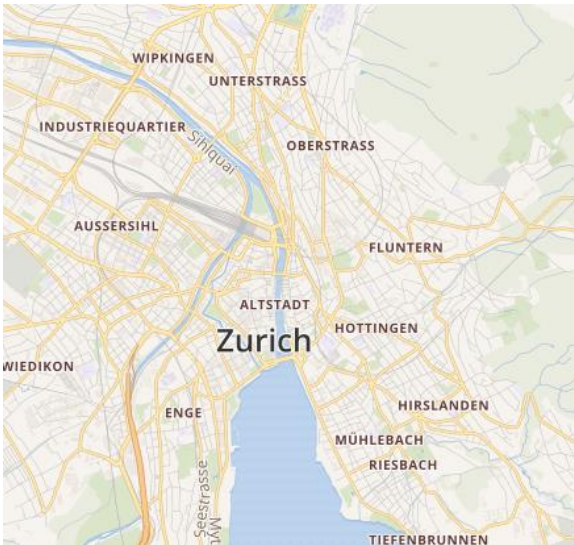


1. The Javascript pixel-level image comparision library.
2. Accurate pixel detection and Perceptual color difference.
3. Thresold ranges between 0 to 1 (Smaller thresold value = more sensitive comparision.)

Pixelmatch



Comparison Example



Expected



Actual

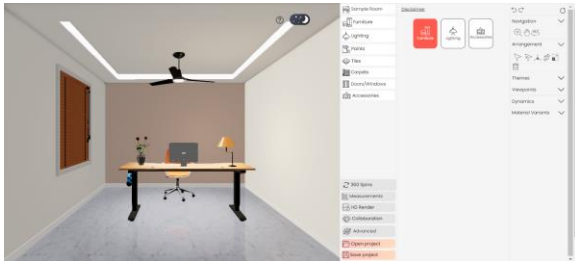


Difference = - 12.38 dB
Similarity = 94.22 %

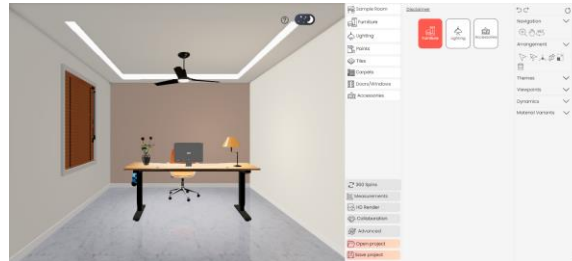
Pixelmatch



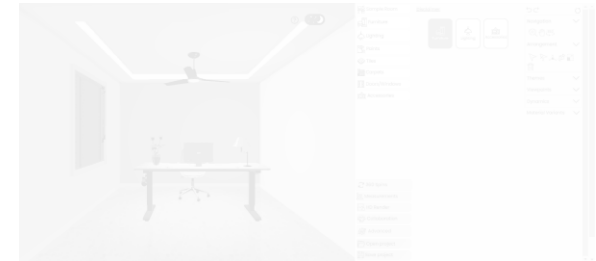
Comparison Example (Furniture – Diff)



Expected



Actual

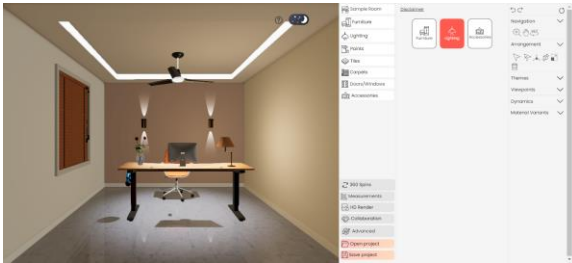


No Difference

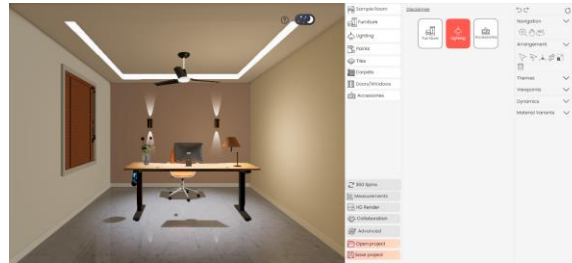
Pixelmatch



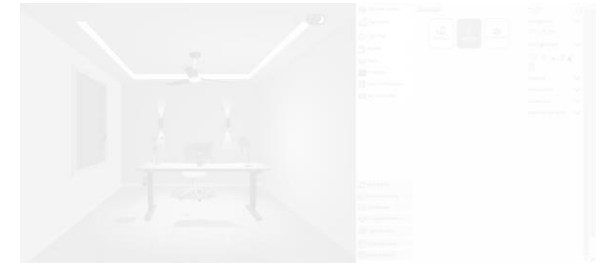
Comparison Example (Furniture with lighting – Diff)



Expected



Actual



No Difference

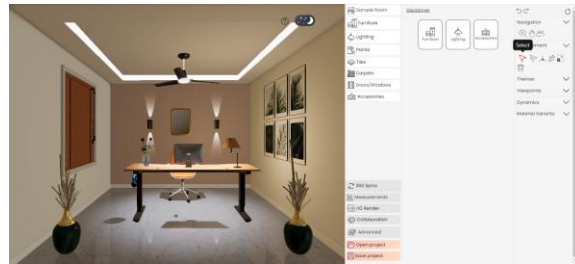
Pixelmatch



Comparision Example (Sample Room with minor change – Diff)



Expected



Actual

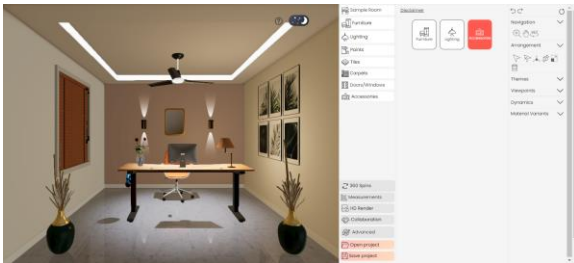


Difference = - 13.98 dB
Similarity = 96 %

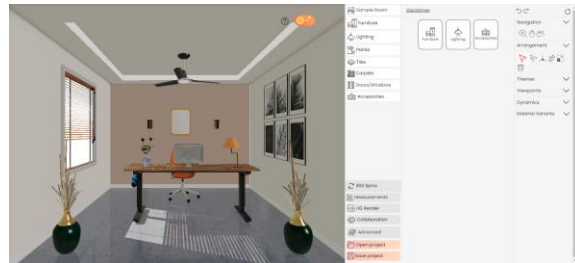
Pixelmatch



Comparison Example (Sample Room with high change – Diff)



Expected



Actual



Difference = - 9.18 dB
Similarity = 87.93 %