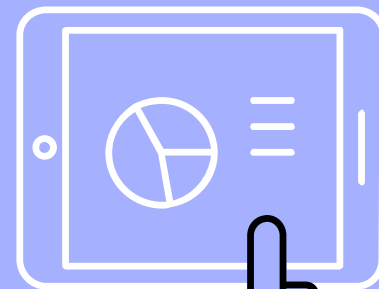
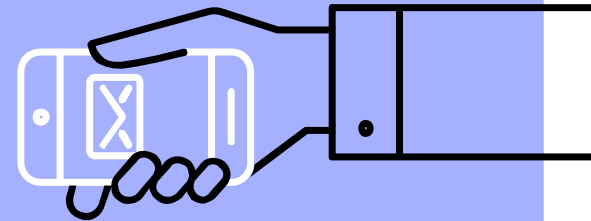
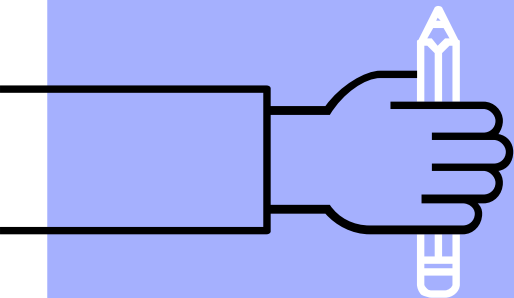
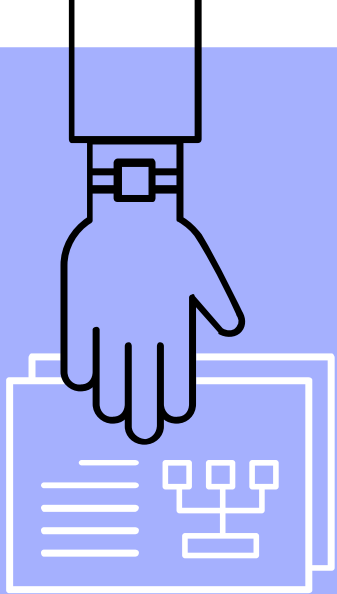


Garantindo a Experiência do Usuário com Testes de Regressão Visual



Olá!

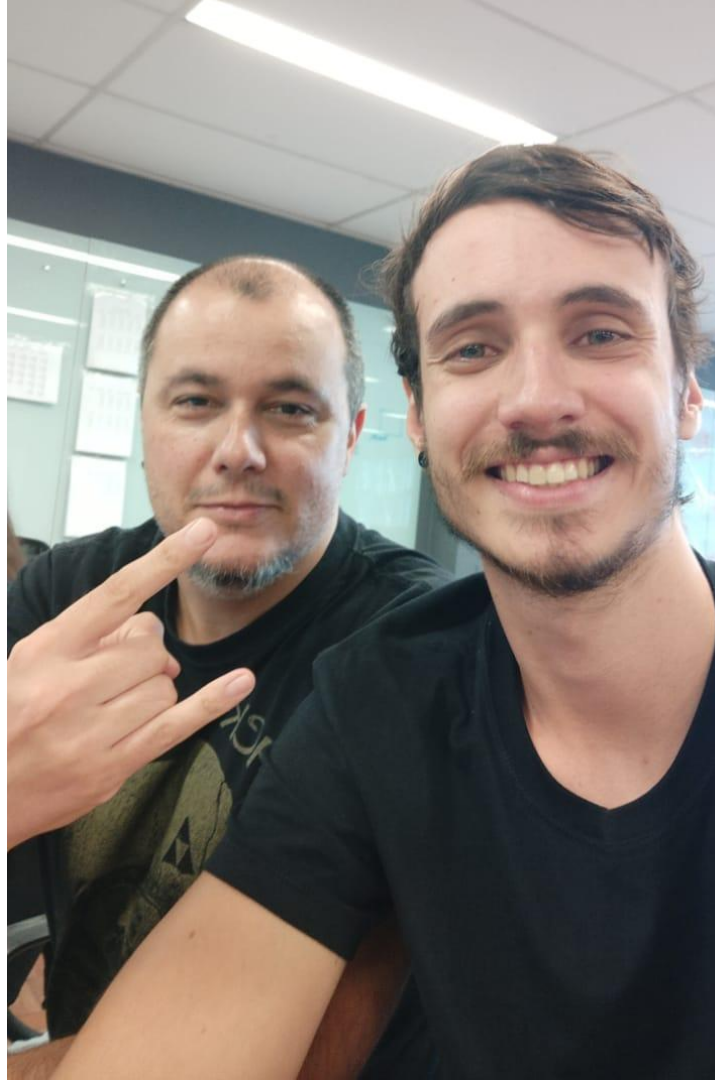
Somos Antonio
Trindade e Ramon
Schmidt

Amamos compartilhar
conhecimento e vemos muito valor
no teste de software!

Encontre nos:

@amtrindade

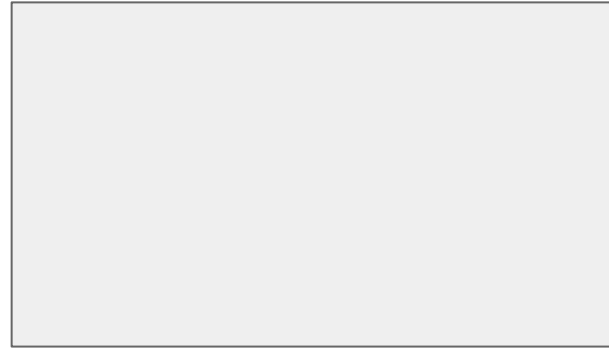
@ramon-src



A ROUPA NOVA DO REI

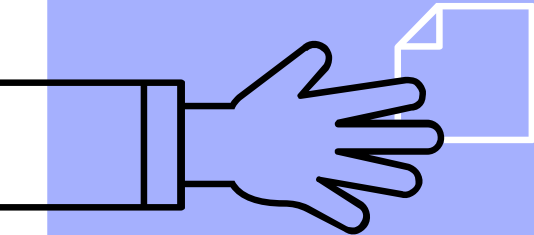
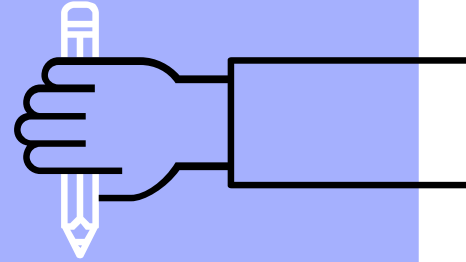


O BOTÃO BRANCO NO FUNDO BRANCO



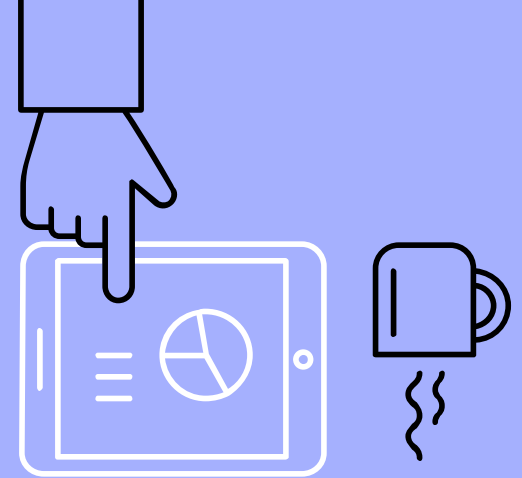
Faça já seu cadastro

TESTES DE REGRESSÃO VISUAL, O QUÊ É?

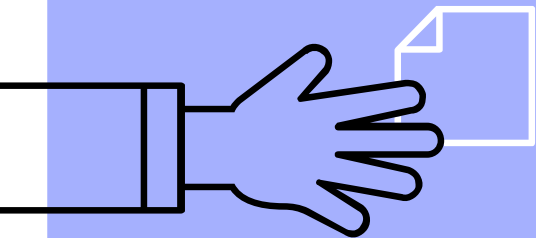
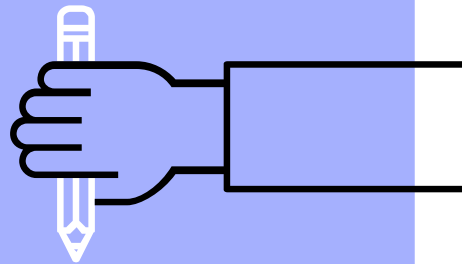


O QUE QUEREMOS GARANTIR?

- RESPONSABILIDADE
- CORES
- ORGANIZAÇÃO DA INFORMAÇÃO
- ELEMENTOS OCULTOS



O QUE QUEREMOS
RESOLVER?



JOGO DOS 7 ERROS

CARNAVAL



CARNAVAL





Galen Framework

Automated testing of look and feel for your responsive websites

COMO ELABORAMOS O PROJETO

- ▶ Java + Gradle
- ▶ TestNG
- ▶ Selenium WebDriver
- ▶ Galen Framework

Reports utilizados do próprio Galen Framework

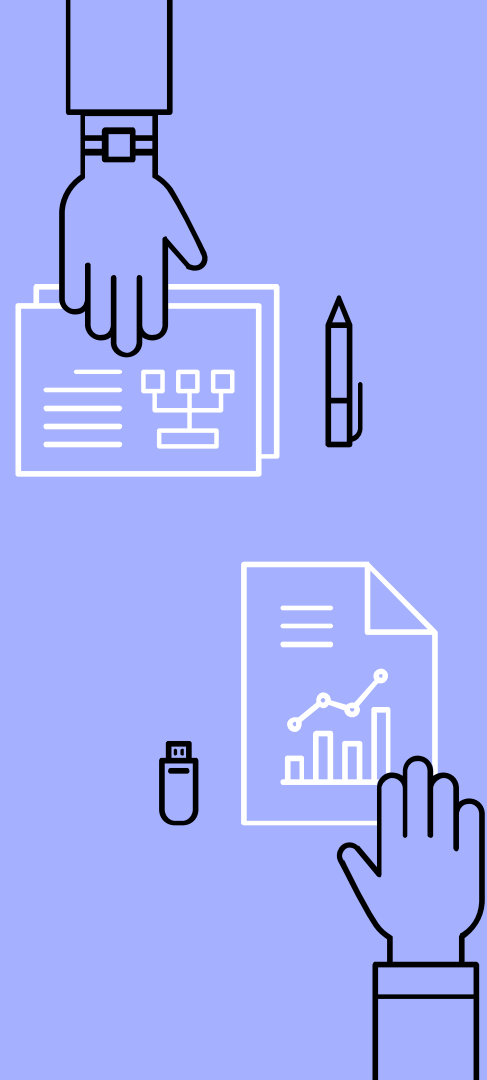


CRIANDO OS PONTOS DE VALIDAÇÃO

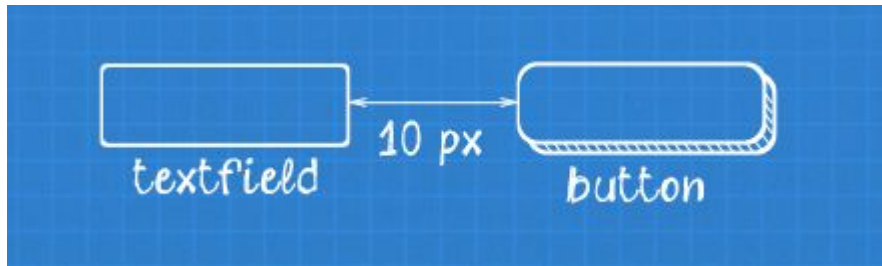
```
@objects
  main          id      main-container
  menu          css     ul.menu
  comments      css     div.comments

= Main section =
  menu:
    width ~ 100 % of main/width

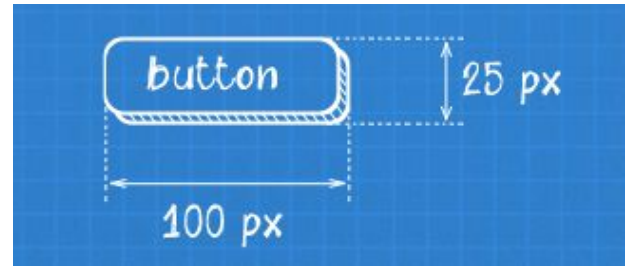
  comments:
    width 40 % of main/width
    height 90 to 100 % of main/height
```



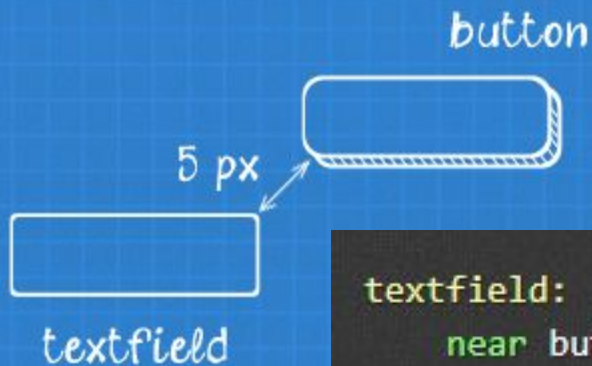
DEFININDO COMPORTAMENTOS



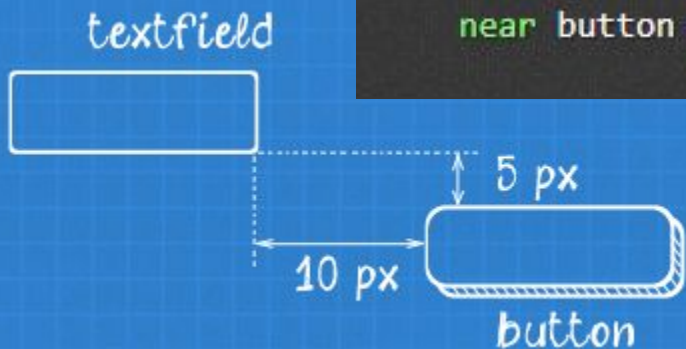
```
textfield:  
  near button 10px left
```



```
button:  
  width 100 px  
  height 25px
```



```
textfield:  
  near button 5px bottom left
```

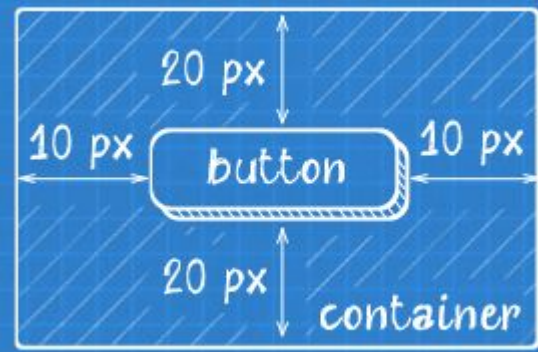


```
textfield:  
  near button 5px top, 10px left
```

E ISSO PODE
VARIAR BASTANTE
DE ACORDO COM A
RESPONSIVIDADE



10 px



POSSIBILIDADES
SÃO DIVERSAS

10 px



item 1

item 2

item 3

```
# By top and bottom edges  
menu_item-1:  
    aligned horizontally all menu_item-2
```



```
menu_item-1:  
    aligned vertically left menu_item-2
```

E COM
REFERÊNCIA NOS
ALINHAMENTOS



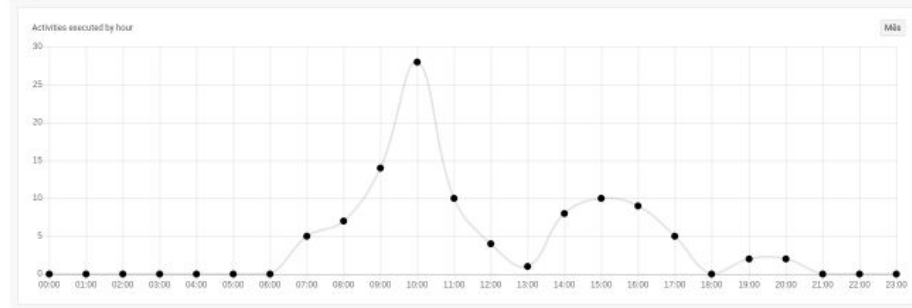
```
@Test(dataProvider = "devices")
public void loginPage_shouldLookGood_onDevice(TestDevice device) throws IOException {
    load("/");
    getDriver().findElement(By.xpath("//button[.='Login']")).click();
    checkLayout("/specs/loginPage.spec", device.getTags());
}
```

```
@DataProvider(name = "devices")
public Object [][] devices () {
    return new Object[][] {
        {new TestDevice("mobile", new Dimension(450, 800), asList("mobile"))},
        {new TestDevice("tablet", new Dimension(750, 800), asList("tablet"))},
        {new TestDevice("desktop", new Dimension(1024, 800), asList("desktop"))}
    };
}
```

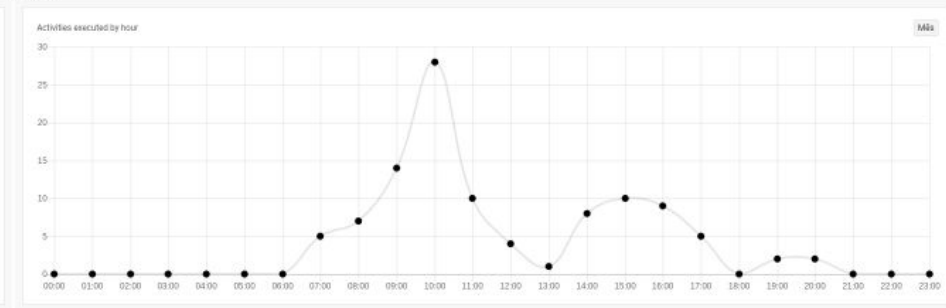
DATA DRIVEN E
RESPONSIVIDADE

COMPARAÇÃO DE IMAGENS

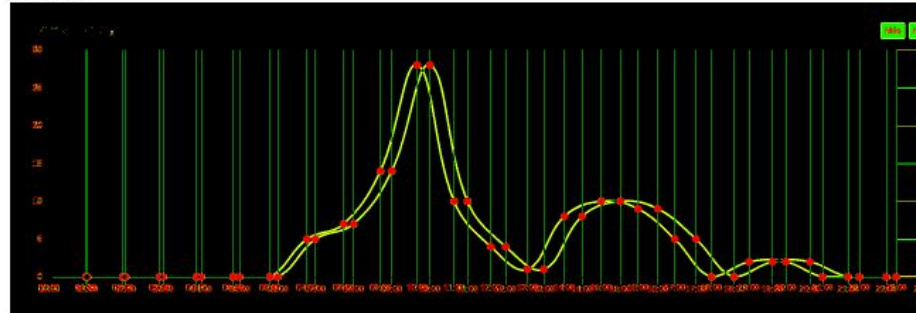
Actual



Expected



Comparison map











GALEN REPORT

Galen Test Report

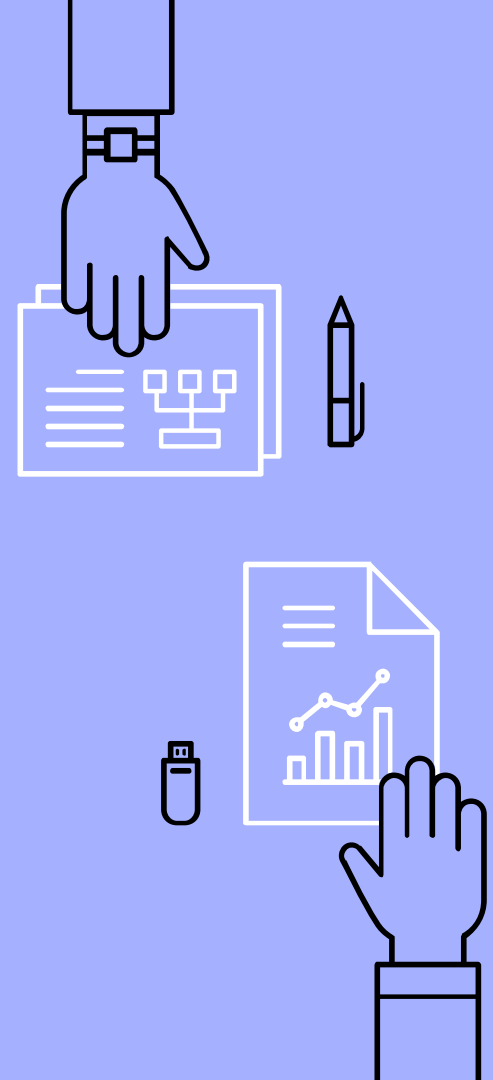
Tests

Groups

Test	Passed	Failed	Warnings	Total	Groups	Started	Duration	
VisualDashTest#shouldValidateActivityExecutionPerType (desktop_1366x1000)	15	0	0	15		26-03-2019 14:07:44	48s	
VisualDashTest#shouldValidateBarExecution (desktop_1366x1000)	15	0	0	15		26-03-2019 14:08:33	46s	
VisualDashTest#shouldValidateBarForeseenAndPercentageOfAgent (desktop_1366x1000)	15	0	0	15		26-03-2019 14:09:20	47s	
VisualDashTest#shouldValidateBarImagesByActivityAndAgentExecutedActivity (desktop_1366x1000)	15	0	0	15		26-03-2019 14:10:08	47s	
VisualDashTest#shouldValidateCardTasks (desktop_1366x1000)	15	0	0	15		26-03-2019 14:10:56	46s	
VisualDashTest#shouldValidateGauge (desktop_1366x1000)	15	0	0	15		26-03-2019 14:11:43	46s	
VisualDashTest#shouldValidateLineActivitiesExecutedByHour (desktop_1366x1000)	15	0	0	15		26-03-2019 14:12:30	46s	
VisualDashTest#shouldValidateLineTasksExecutedByHour (desktop_1366x1000)	15	0	0	15		26-03-2019 14:13:17	47s	

LIÇÕES APRENDIDAS

- ▶ Regressão visual é cultural
- ▶ Time precisa estar engajado na manutenção dos testes e padronizações dos layouts
- ▶ Maturidade do processo e das pessoas



THANKS!

Antônio Trindade

@amtrindade

Ramon Schmidt

@ramon_src @ramon-src

