



11 - Janelas, frames e coisas mais

Roteiro

- Alertas
 - Alertas
 - Confirmações
 - Prompts
- Janelas e Abas
- iFrames



t h e

e n d

picpay.me/dunossauro | apoia.se/livedepython

PicPay

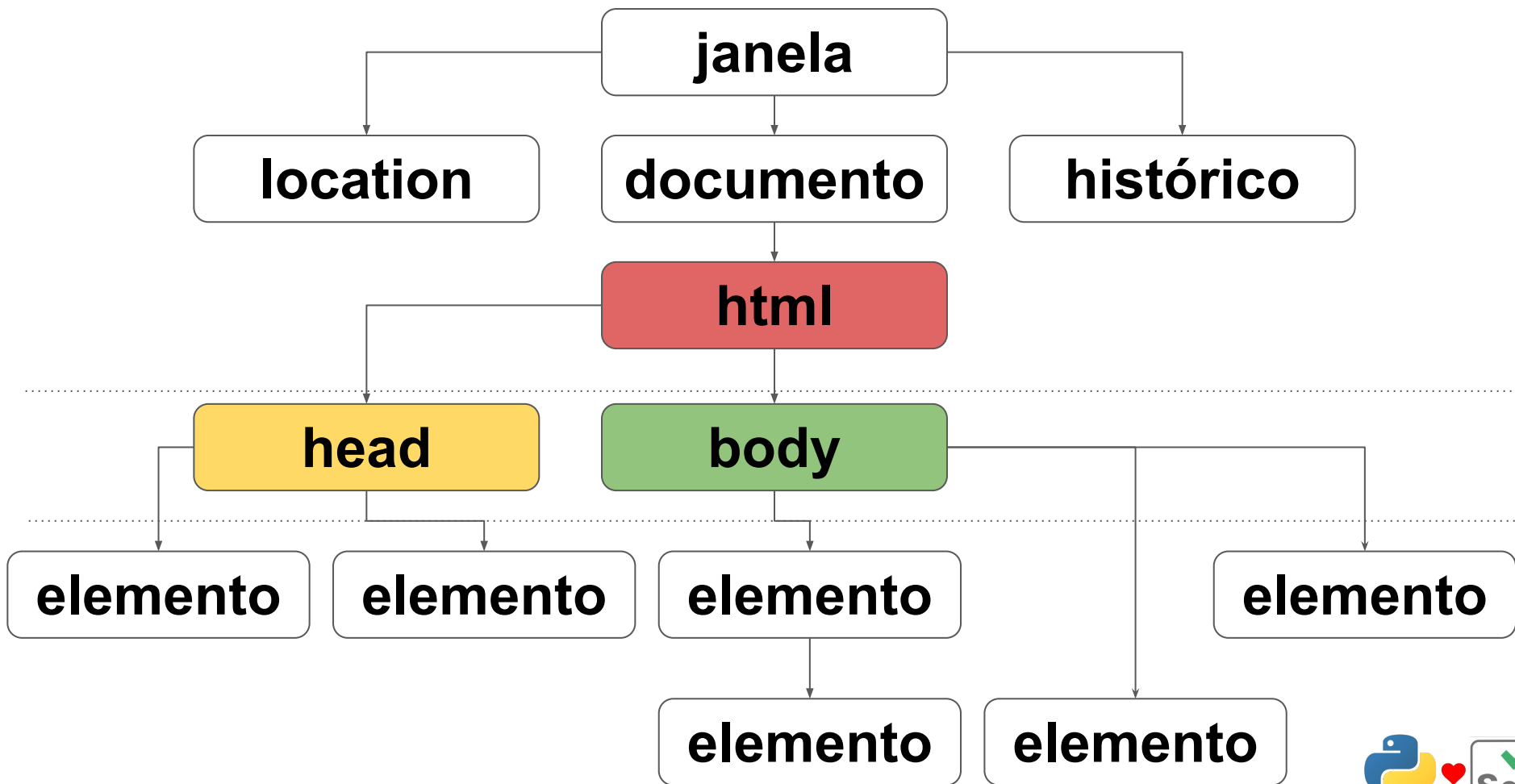
APOIA.se



picpay.me/dunossauro | apoia.se/livedepython

```
dunossauro at babbage in ~/git/apoiase on master*  
$ python apoiadores.py  
ADRIANO FERRARI      ALBERTO TAVARES      Alex Lima             Alexandre Possebom    Alexandre Santos  
Alexandre Sá         Alexandre Tsuno       Alexandre Villares    Alynne Ferreira       Alysson Oliveira  
Amaziles Carvalho    And Past              Andre Machado         Andre Rodrigues        Athayr Athayr  
Bernardo Fontes      Bruno Barros          Bruno Oliveira        Bruno Gaffuri          Bruno Guizi  
Bruno Luna           Bruno Lira            Bruno Rocha           CARLOS SANTOS         Caio Nascimento  
Carlos Cardoso       Carlos Augusto        Carol Souza           Cleber Santos          Cleiton Mittmann  
Cleiton Lima         DYLAN MAKER          Davi Ramos            David Reis             David Silva  
Davinir Junior       Dayham Soares        Diego Guimarães       Diego Ubirajara        Dilenon Delfino  
Douglas Bastos      EDUARDO PAZZI        Edimar Fardim         Eduardo Guadanhim      Eduardo Nunes  
Eliabe Silva         Eliakim Morais        Elias Soares          Elias Soares          Eliel Lima  
Emerson Lara         Emerson Lara          Eugenio Mazzini       Eugenio Mazzini       Fabiano Silos  
Fabiano Teichmann    Fabiano Gomes         Fabrício Coelho       Fausto Caldeira        Fernando Furtado  
Filipe Cruz          FlavKaze FlavKaze     Franklin Silva        Fábio Serrão           Gabriel Simonetto  
Gabriela Santiago    Geandreson Costa      Gladson Menezes      Gleison Oliveira      Guilherme Ramos  
Helter Silva         Hemilio Lauro         Humberto Rocha        Hélio Neto             Hélio Neto  
Isaac Ferreira       JONATHAN DOMINGOS    Jean Vetorello        Johnny Tardin          Jonatas Oliveira  
Jonatas Simões       Jonatas Oliveira      Jorge Plautz          José Prado             Jovan Costa  
João Lúgão           João Coelho           Juan Gutierrez        Jucélio Silva          Júlia Kastrup  
Kauan Alves          LEONARDO CRUZ         Leon Teixeira         Leonardo Rezende        Letícia Silva  
Lucas Mendes         Lucas Nascimento      Lucas Neris           Lucas Valino           Lucas Polo  
Magno Malkut         Maiquel Leonel        Marcello Benigno       Marcus Salgues         Maria Boladona  
Maria Clara          Mateus Braga          Matheus Francisco     Melisa Campagnaro      Nilo Pereira  
Nídio Dolfini        Octavio Sydow         Pablo Henrique        Patrick Corrêa         Patrick Gomes  
Paulo Tadei          Pedro Alves           Rafael Galleani        Rafael Dias            Regis Santos  
Renan Gomes          Renan Moura           Renato Santos          Rennan Almeida         Renne Rocha  
Rhenan Bartels       Ricardo Schalch       Richard Nixon          Rodrigo Ferreira        Rodrigo Vaccari  
Régis Tomkiel        Sérgio Passos         Thais Viana           Thiago Araujo           Tiago Cordeiro  
Tyrone Damasceno     Valdir Junior         Valdir Silveira       Vergil Valverde        Vicente Marcal  
Victor Geraldo       Vinícius Ferreira     Vitor Dutra           Vítor Zanoni           Wander Silva  
Wellington Carlos    Wellington Camargo     Welton Souza          William Oliveira        William Oliveira  
Willian Lopes        Willian Lopes         Willian Rosa           Yros Aguiar            Falta você
```





Alertas

selenium.dunossauro.live/aula_11_a



Alertas

Alertas são elementos relativos as janelas. São elementos que não estão necessariamente presentes no DOM.

selenium.dunossauro.live/aula_11_a



Alertas

Existem 3 tipos de “alertas” e cada um tem sua maneira própria de interação com o selenium

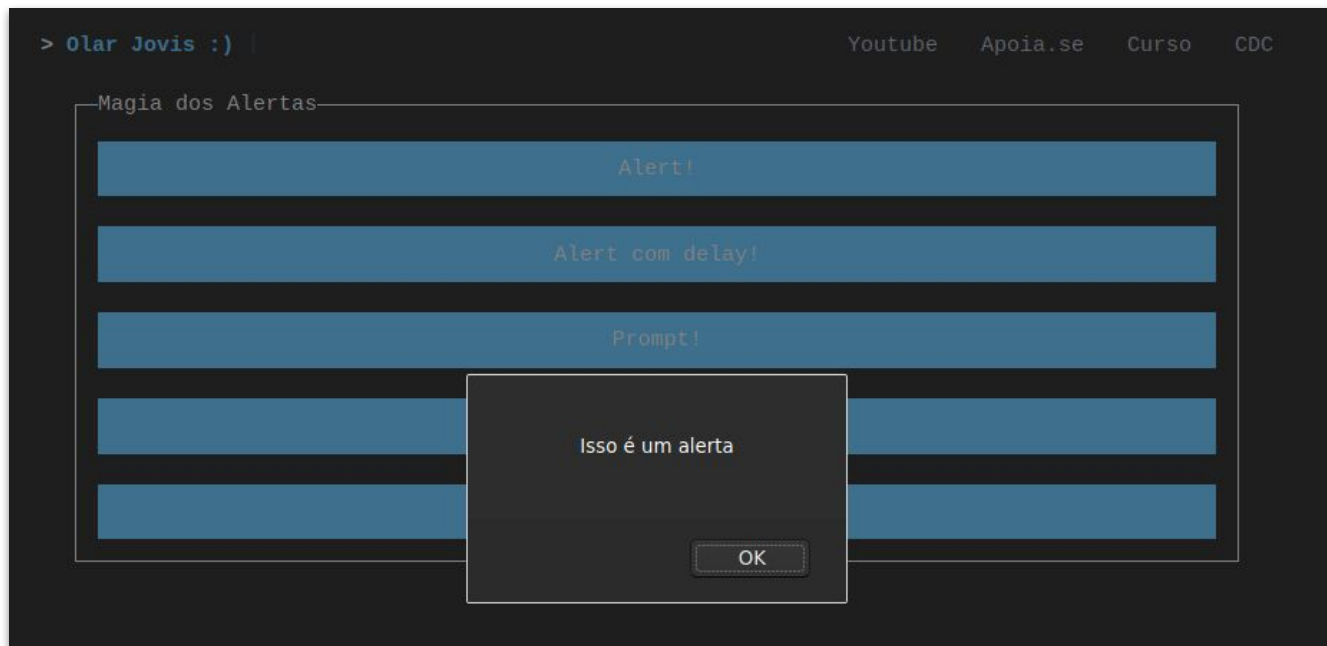
- alert
- prompt
- confirm

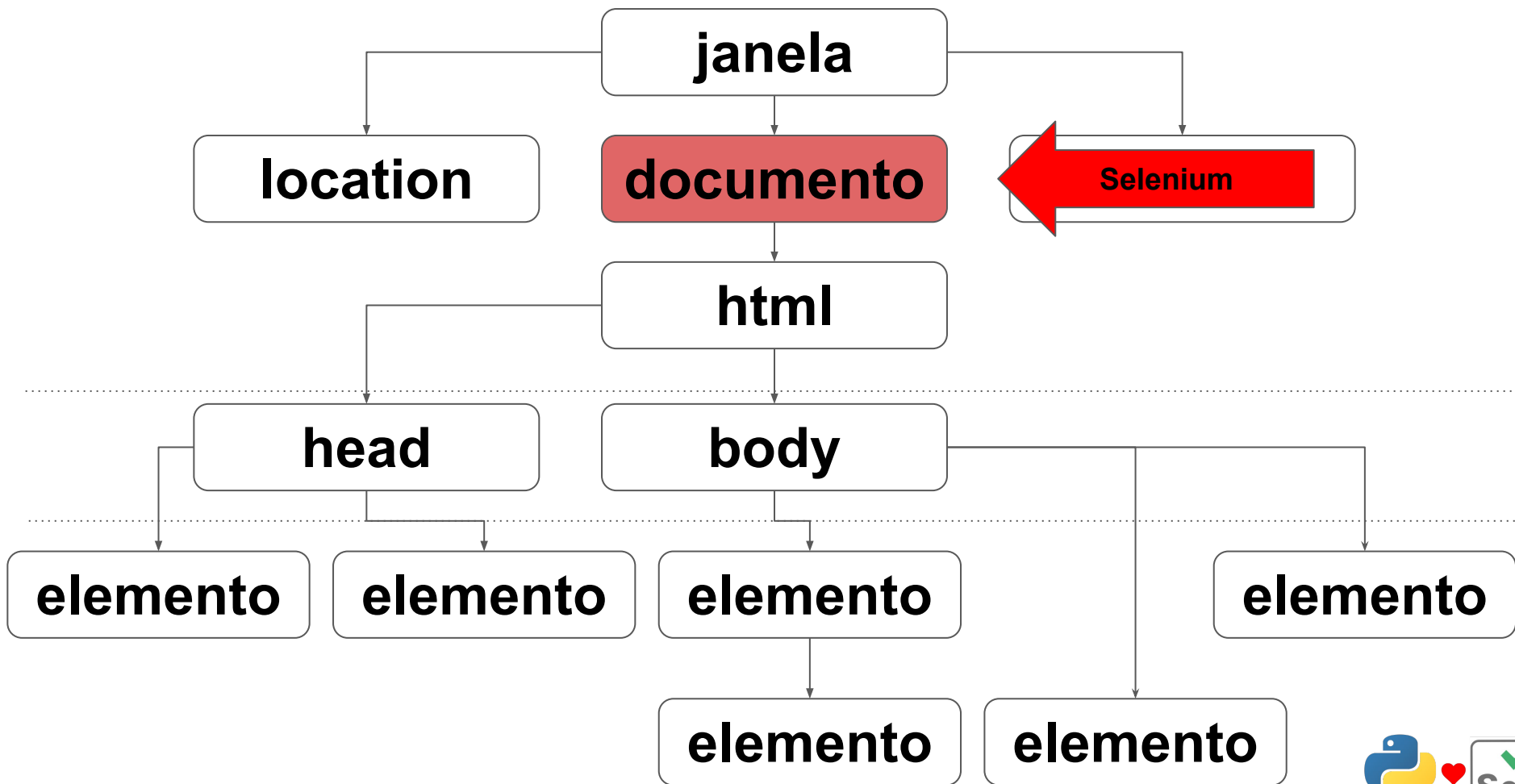


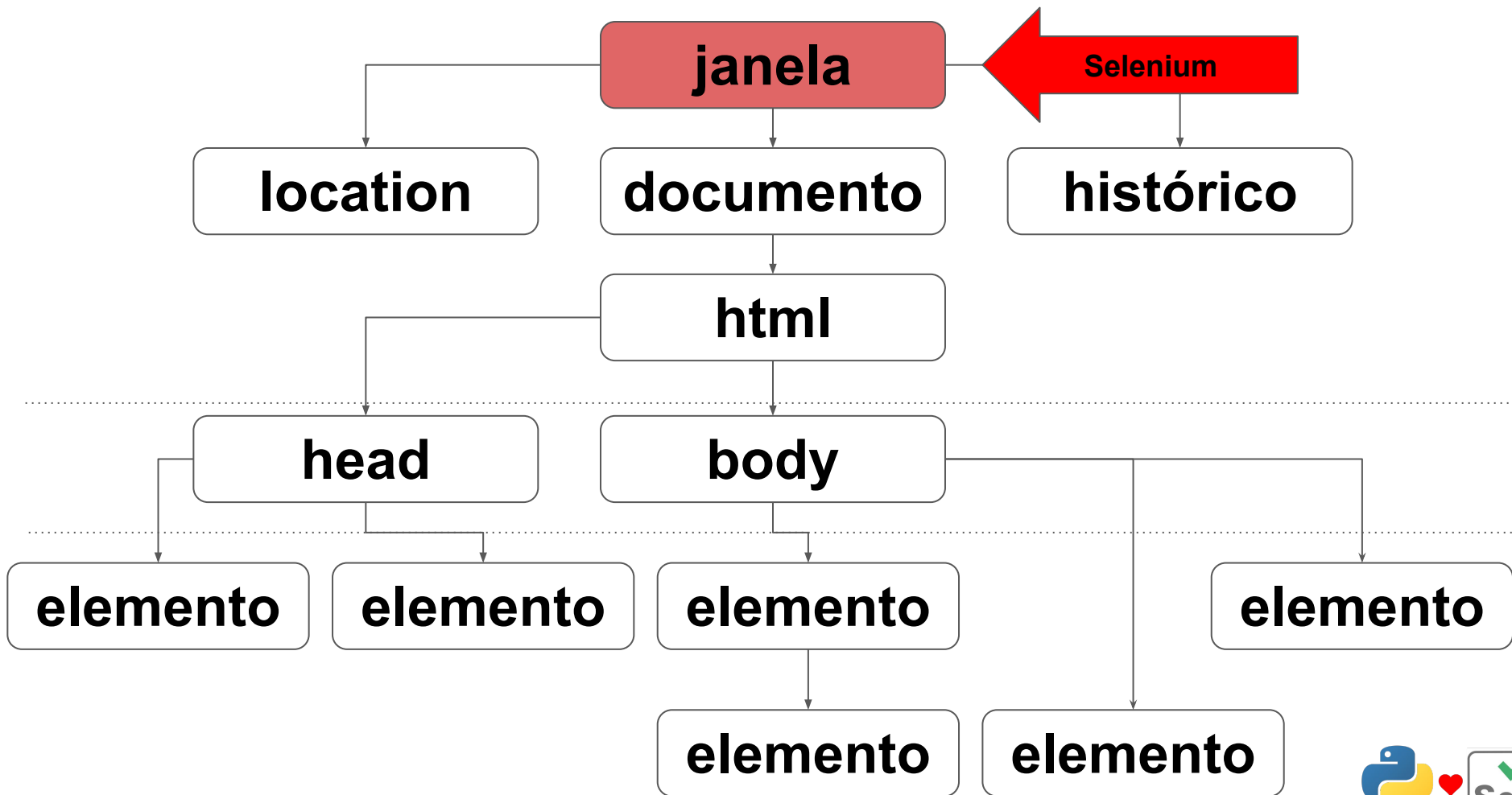
Alertas

Existem 3 tipos de “alertas” e cada um tem sua maneira própria de interação com o selenium

- **alert**
- **prompt**
- **confirm**

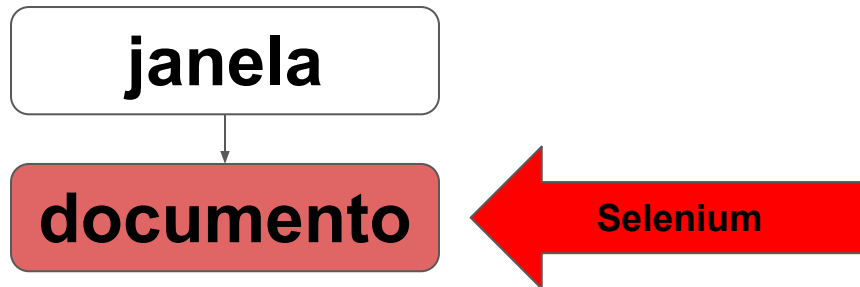






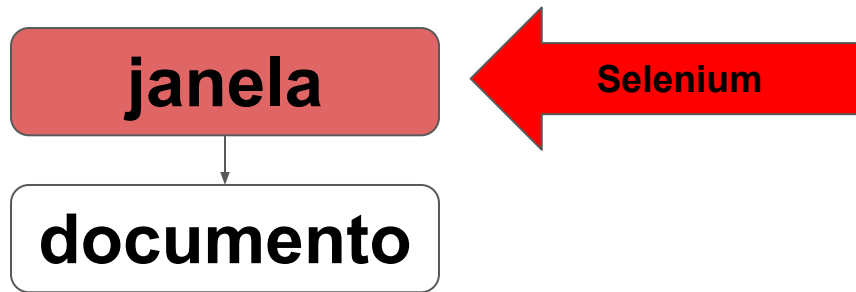
Contexto de alertas

```
from selenium.webdriver import Firefox  
  
f = Firefox()  
  
f.get('page')  
  
f.find_element_by_id('alert').click()
```



Contexto de alertas

```
from selenium.webdriver import Firefox  
  
f = Firefox()  
  
f.get('page')  
  
f.find_element_by_id('alert').click()  
  
f.switch_to.alert
```



Contexto de alertas

```
from selenium.webdriver import Firefox  
  
f = Firefox()  
  
f.get('page')  
  
f.find_element_by_id('alert').click()  
  
f.switch_to.alert
```

selenium.webdriver.common.alert.Alert

accept

dismiss

send_keys

text

Bora codar esse alerta

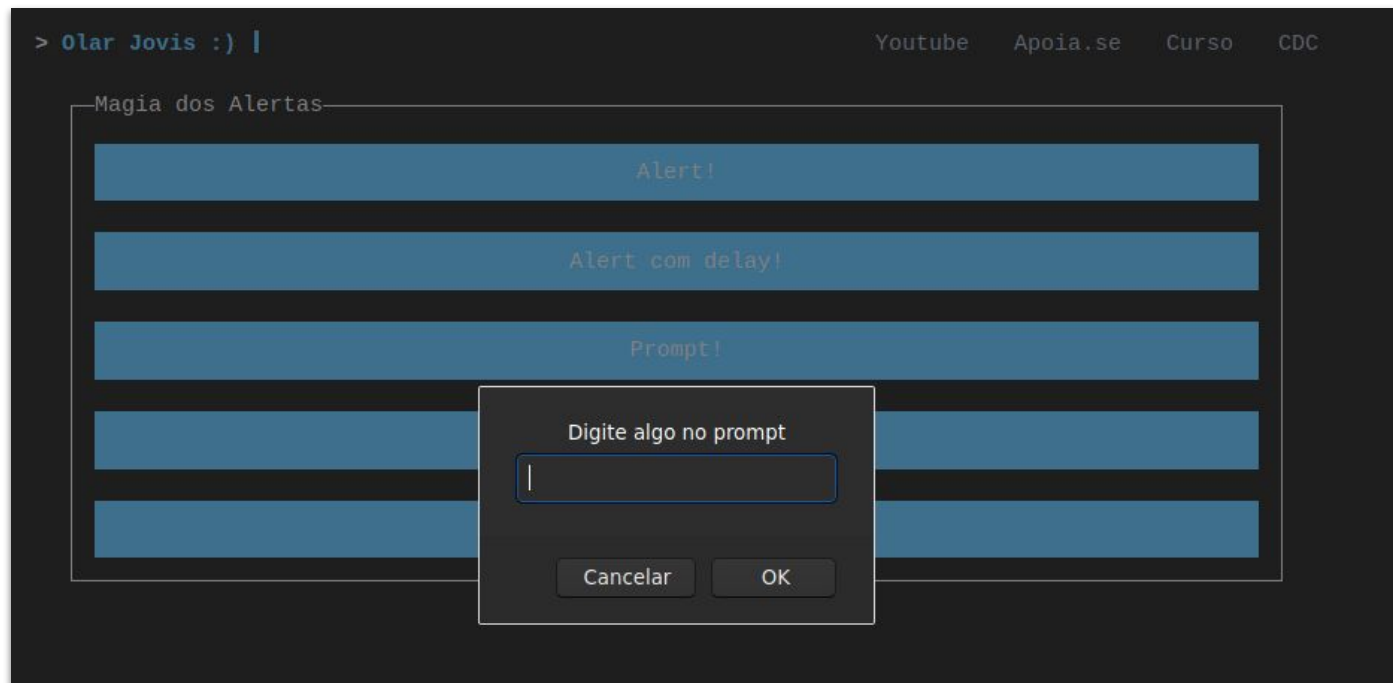
https://selenium.dunossauro.live/aula_11_a



Alertas

Existem 3 tipos de “alertas” e cada um tem sua maneira própria de interação com o selenium

- alert
- **prompt**
- confirm



Contexto de alertas

```
from selenium.webdriver import Firefox
from selenium.webdriver.common.alert import Alert

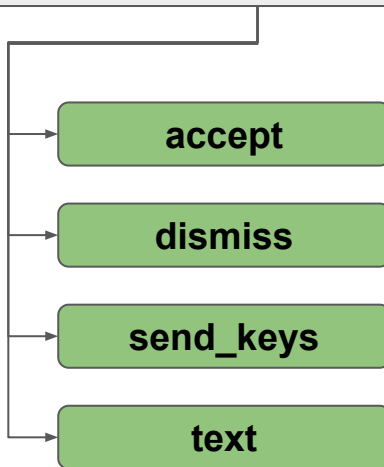
f = Firefox()

f.get('page')

f.find_element_by_id('alert').click()

alerta = Alert(f)
```

selenium.webdriver.common.alert.Alert



Contexto de alertas

```
from selenium.webdriver import Firefox  
from selenium.webdriver.common.alert import Alert
```

```
f = Firefox()
```

```
f.get('page')
```

```
f.find_element_by_id('alert').click()
```

```
alerta = Alert(f)
```

selenium.webdriver.common.alert.Alert

accept

dismiss

send_keys

text

Contexto de alertas

```
from selenium.webdriver import Firefox
from selenium.webdriver.common.alert import Alert

f = Firefox()

f.get('page')

f.find_element_by_id('alert').click()

alerta = Alert(f)
```

selenium.webdriver.common.alert.Alert

accept

dismiss

send_keys

text

Bora codar esse Prompt

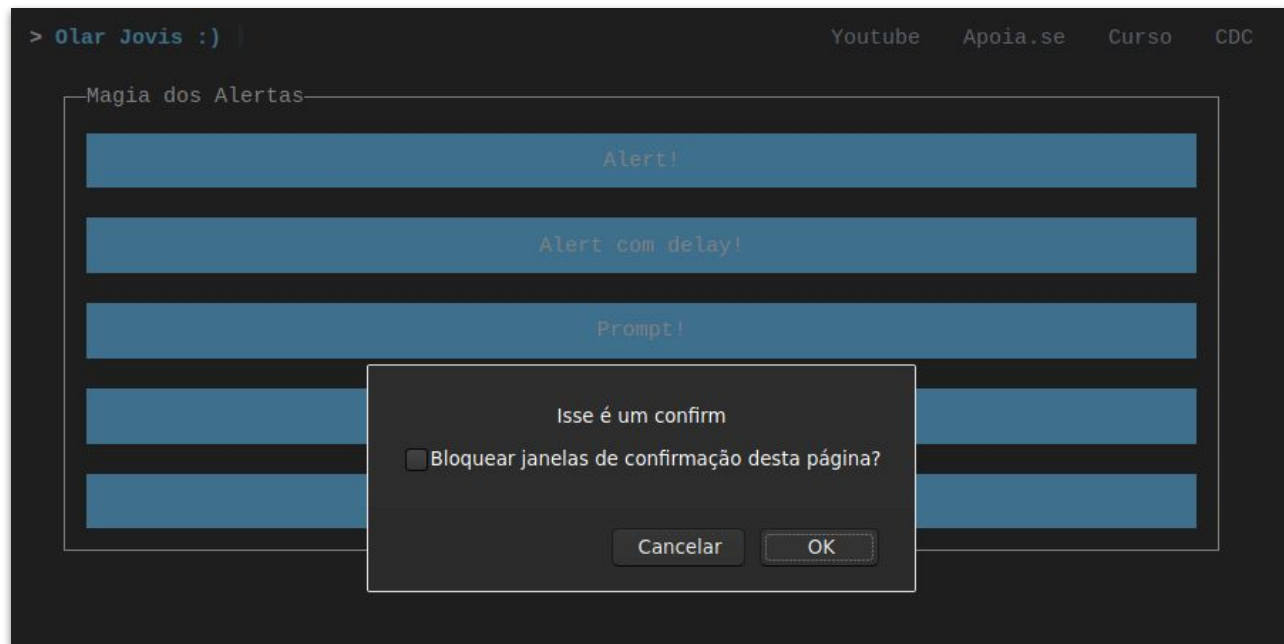
https://selenium.dunossauro.live/aula_11_a



Alertas

Existem 3 tipos de “alertas” e cada um tem sua maneira própria de interação com o selenium

- alert
- prompt
- **confirm**



Contexto de alertas

```
from selenium.webdriver import Firefox  
  
f = Firefox()  
  
f.get('page')  
  
f.find_element_by_id('alert').click()  
  
f.switch_to.alert
```

selenium.webdriver.common.alert.Alert

accept

dismiss

send_keys

text

Waits em alerts

Aguardado alertas

Como tudo, temos possíveis problemas com possíveis tempos.

Existe uma condição pronta para alertas e ela ainda retorna o alerta para facilitar.

```
from selenium.webdriver import Firefox
from selenium.webdriver.common.alert import Alert
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.support.expected_conditions import alert_is_present

f = Firefox()
w = WebDriverWait(f, 30)

f.get('http://localhost:8000/aula_11_a.html')
f.find_element_by_id('alertd').click()
alert = w.until(alert_is_present())
alert.accept()
```



Aguardado alertas

Como tudo, temos possíveis problemas com possíveis tempos.

Existe uma condição pronta para alertas e ela ainda retorna o alerta para facilitar.

```
from selenium.webdriver import Firefox
from selenium.webdriver.common.alert import Alert
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.support.expected_conditions import alert_is_present

f = Firefox()
w = WebDriverWait(f, 30)

f.get('http://localhost:8000/aula_11_a.html')
f.find_element_by_id('alertd').click()
alert = w.until(alert_is_present())
alert.accept()
```

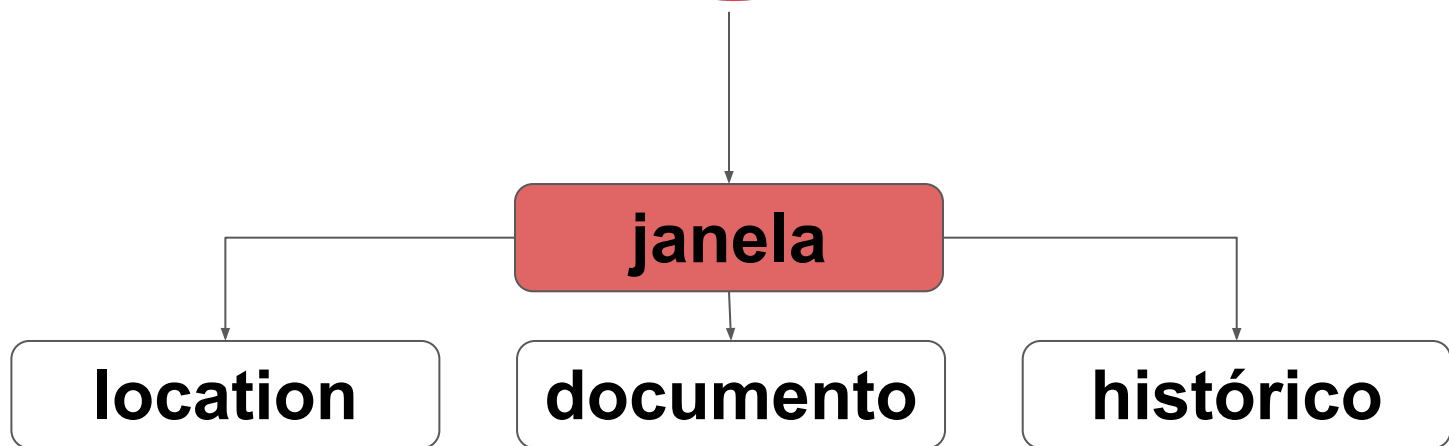


Janelas e abas

https://selenium.dunossauro.live/aula_11_b.html

https://selenium.dunossauro.live/aula_11_c.html







janela



current_window_handle



janela 1



current_window_handle
Número de ID



janela 15

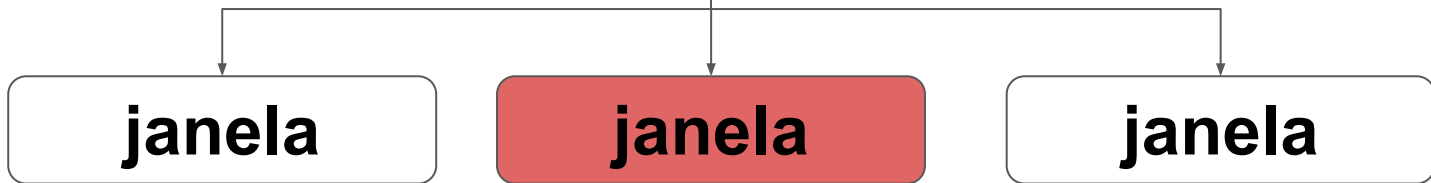
janela 1

janela 79

current_window_handle

window_handles





current_window_handle

window_handles

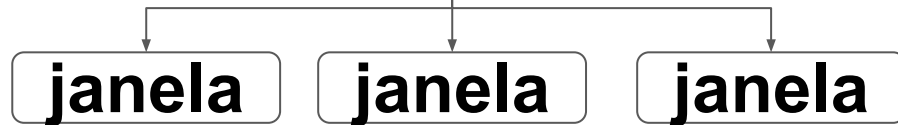


ABAS = JANELAS



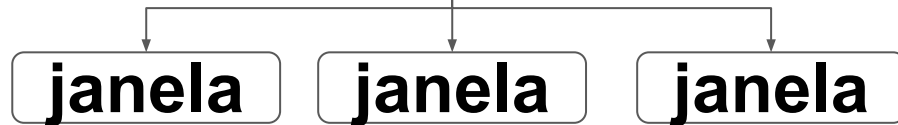
POPUPS = JANELAS





```
from selenium.webdriver import Firefox  
  
f = Firefox()  
  
f.get('http://localhost:8000/aula_11_b.html')  
  
f.find_element_by_tag_name('button').click()  
  
f.switch_to.window(  
    f.window_handles[-1]  
)
```





```
from selenium.webdriver import Firefox  
  
f = Firefox()  
  
f.get('http://localhost:8000/aula_11_b.html')  
  
f.find_element_by_tag_name('button').click()  
  
f.switch_to.window(  
    f.window_handles[-1]  
)
```



Codar um tikin com popups

https://selenium.dunossauro.live/aula_11_b.html



Codar um tikin com abas

https://selenium.dunossauro.live/aula_11_c.html



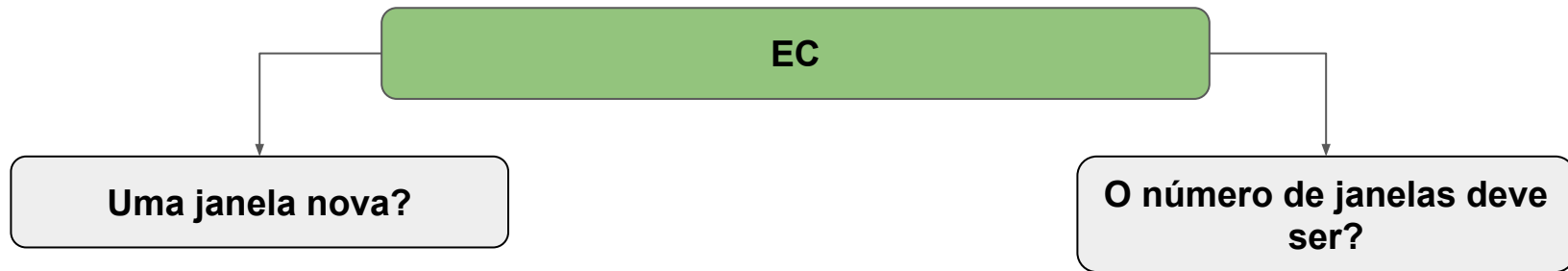
Abrindo abas

usando script



Waits em Janelas

Esperas para janelas



```
class number of windows to be:  
    def __init__(self, num_windows):  
        self.num_windows = num_windows  
  
    def __call__(self, driver):  
        return len(driver.window_handles) == self.num_windows
```

```
class new window is opened:  
    def __init__(self, current_handles):  
        self.current_handles = current_handles  
  
    def __call__(self, driver):  
        return len(driver.window_handles) > len(self.current_handles)
```



Vamos codar a espera

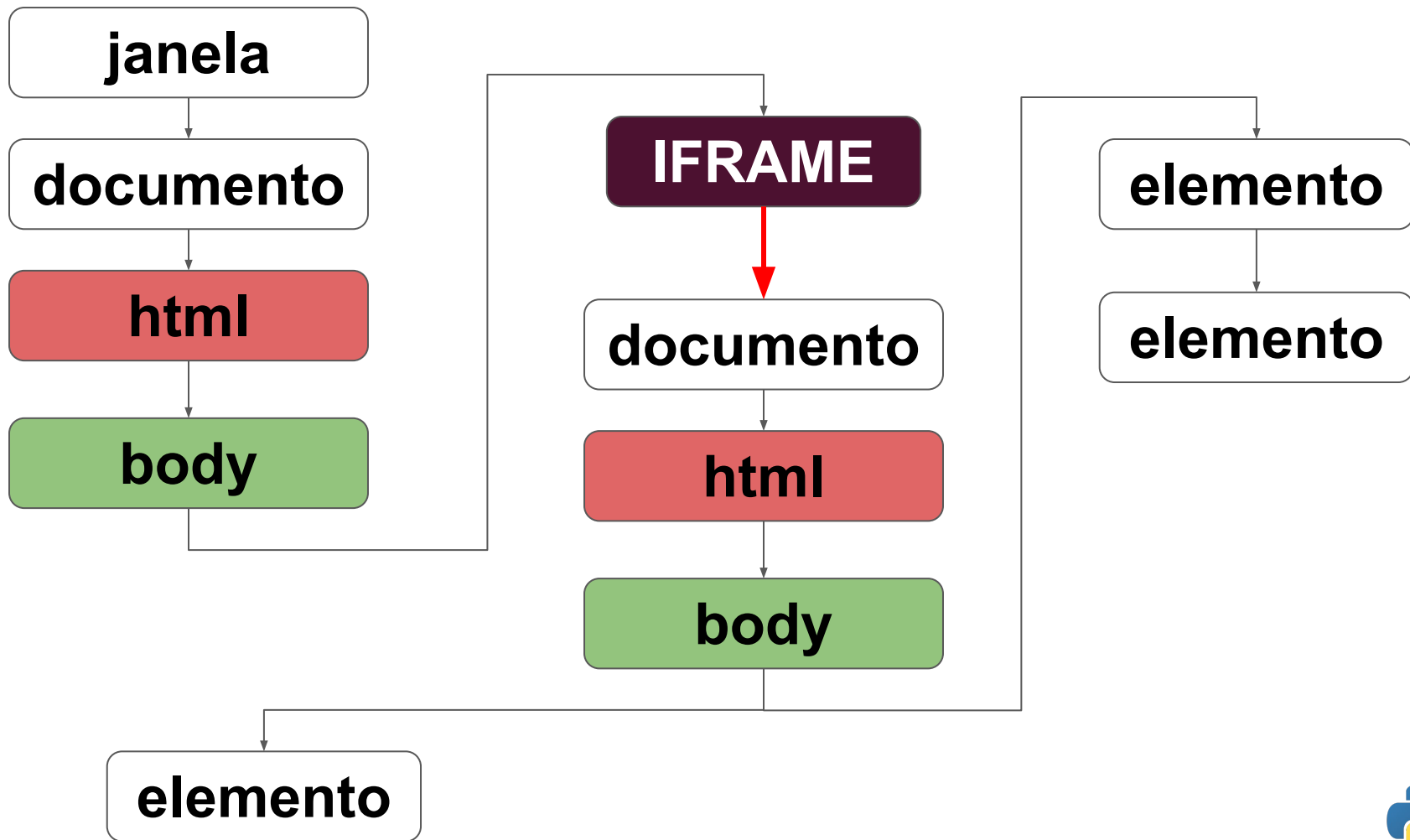
https://selenium.dunossauro.live/aula_11_b.html



Iframes

https://selenium.dunossauro.live/aula_11_d.html





> Olá Jovis :) |

[Youtube](#)

[Apoia.se](#)

[Curso](#)

[CDC](#)

Uma iframe

> Olá Jovis :) |

[Youtube](#)

[Apoia.se](#)

[Curso](#)

[CDC](#)

Faça seu cadastro

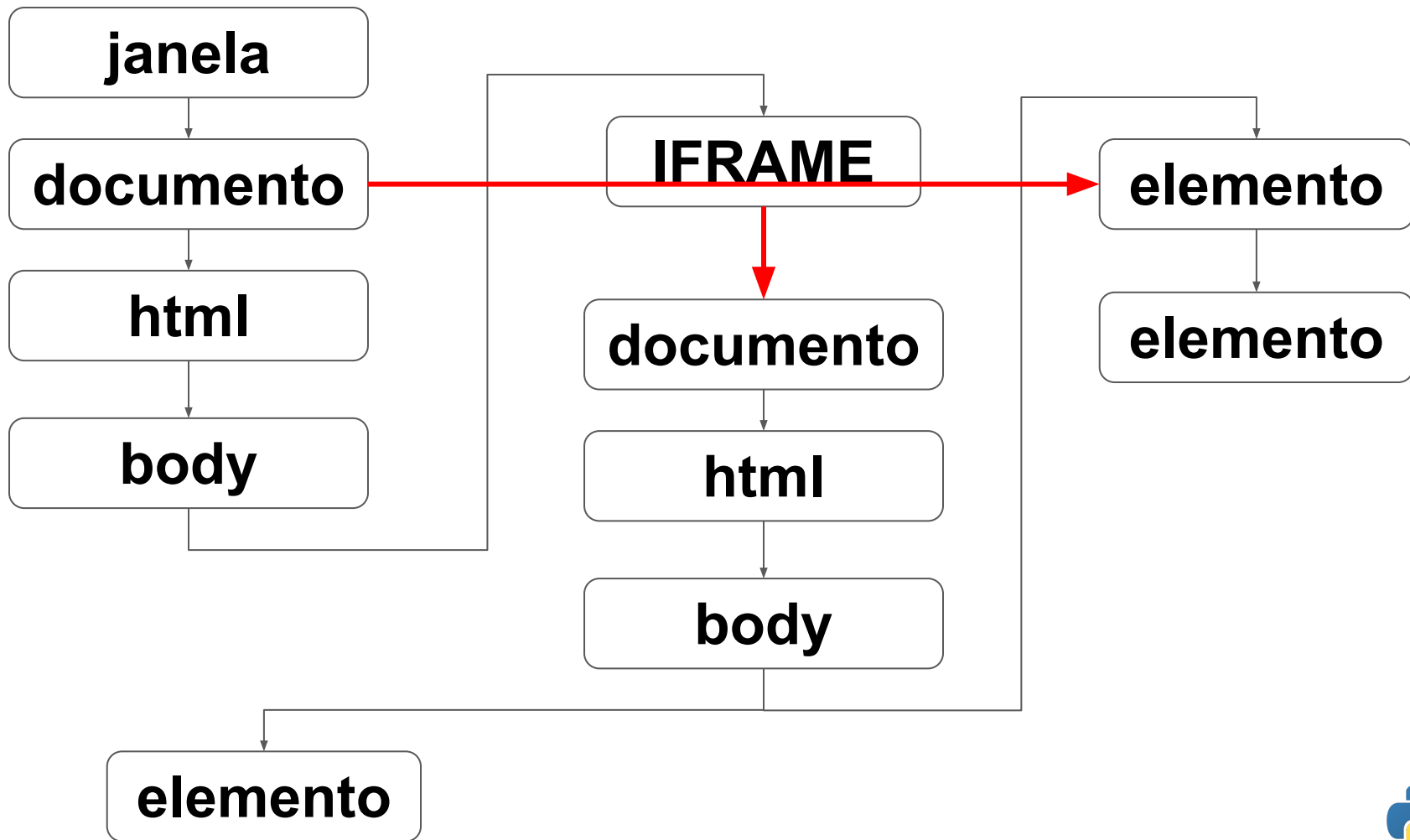
nome:

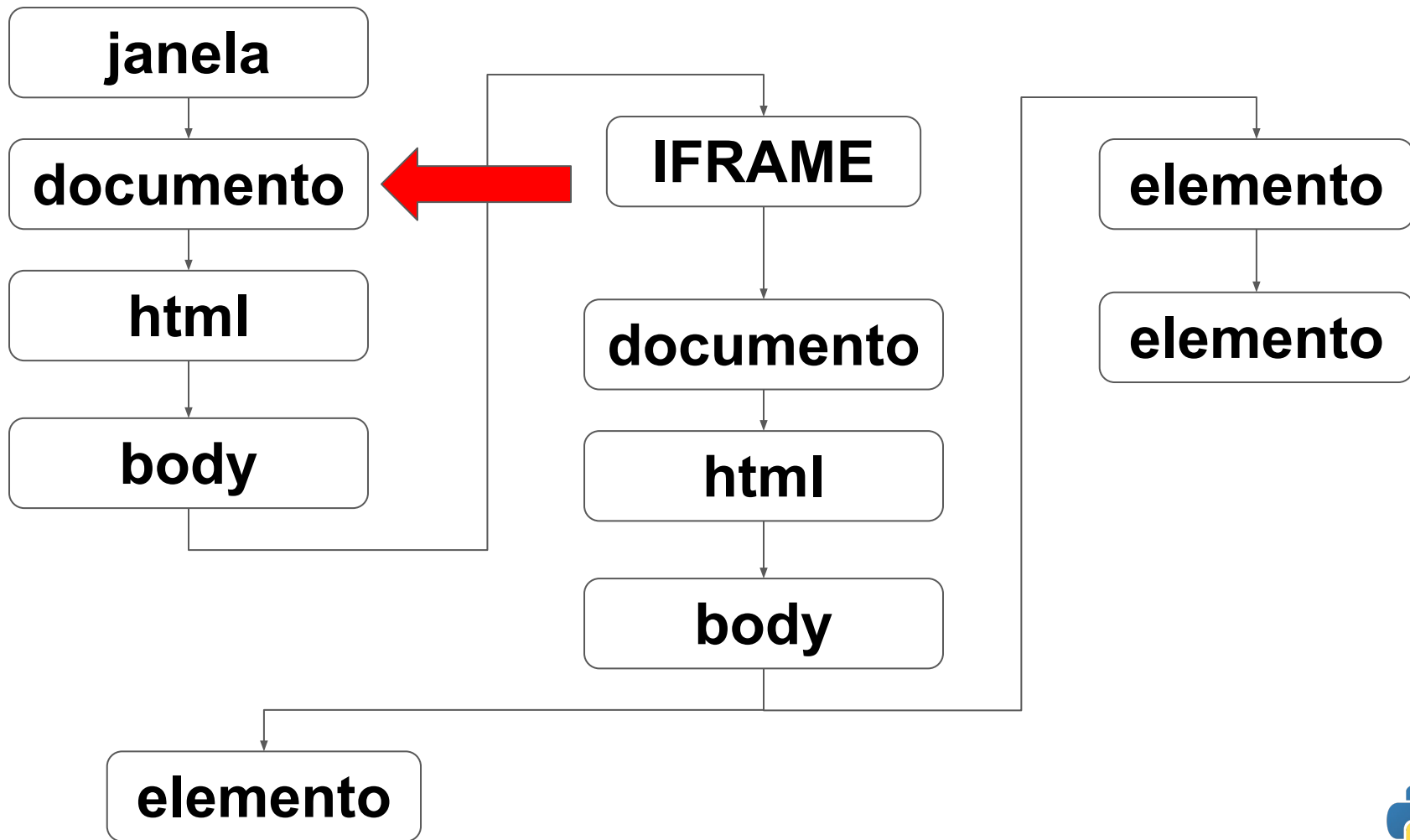
email:

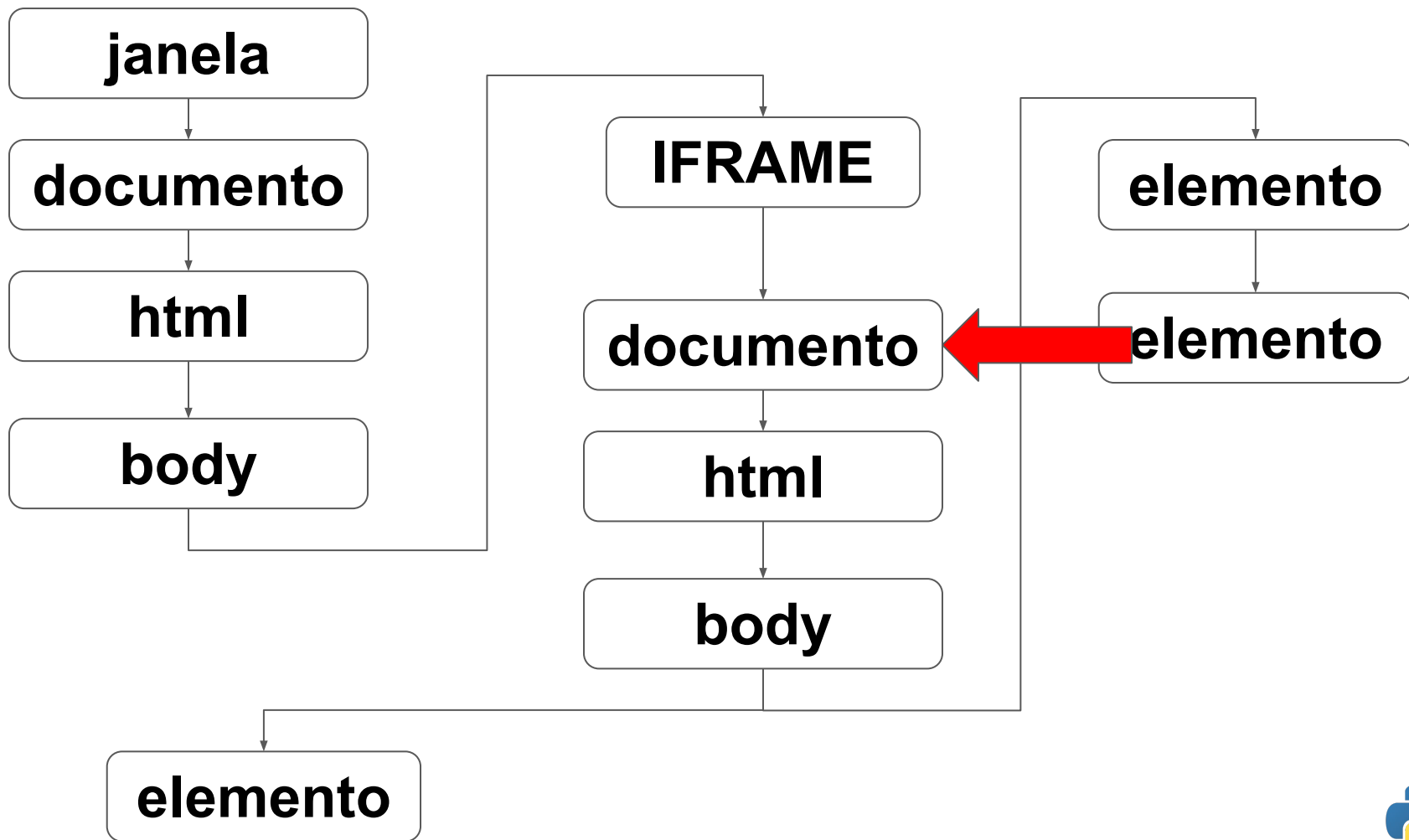
senha:

Enviar!









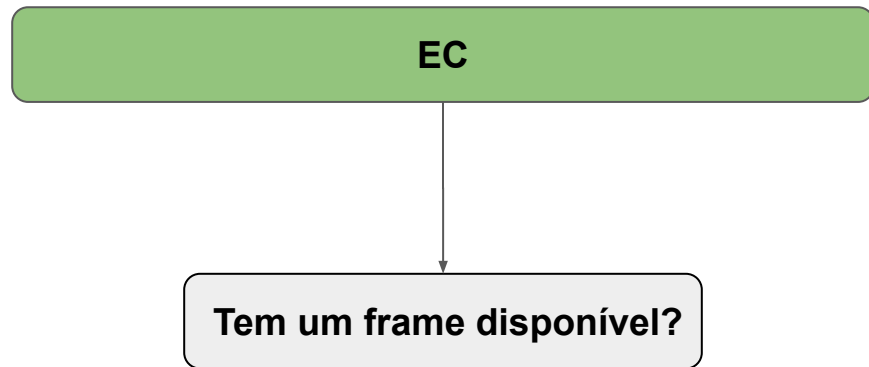
Bora migrar de DOM?

https://selenium.dunossauro.live/aula_11_d.html

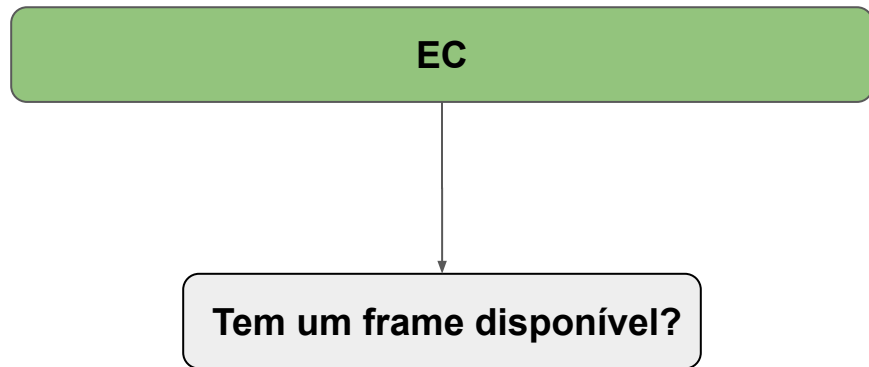


Waits Iframes

Esperas para janelas



Esperas para janelas



```
class frame to be available and switch to it:
    def __init__(self, locator):
        self.frame_locator = locator

    def __call__(self, driver):
        try:
            if isinstance(self.frame_locator, tuple):
                driver.switch_to.frame(_find_element(driver,
                                                    self.frame_locator))
            else:
                driver.switch_to.frame(self.frame_locator)
            return True
        except NoSuchElementException:
            return False
```

Exercícios

https://selenium.dunossauro.live/exercicio_12.html

