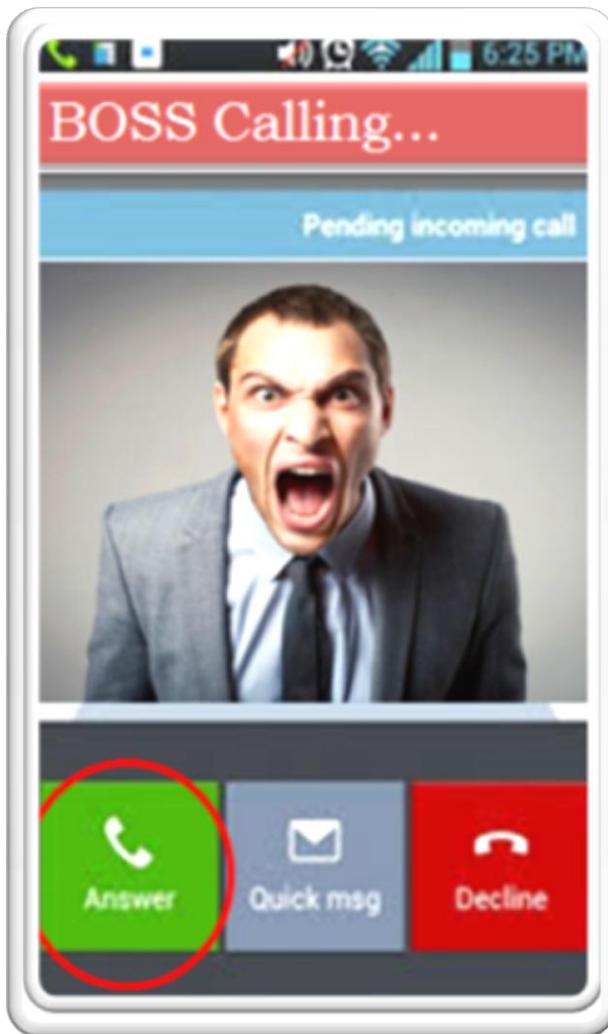
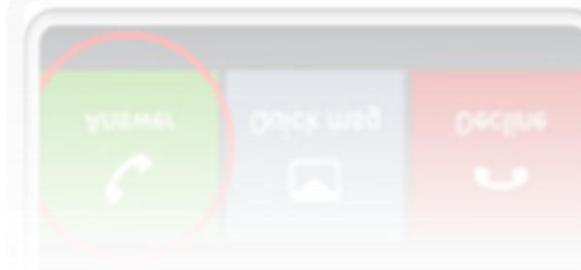


**Switch To**

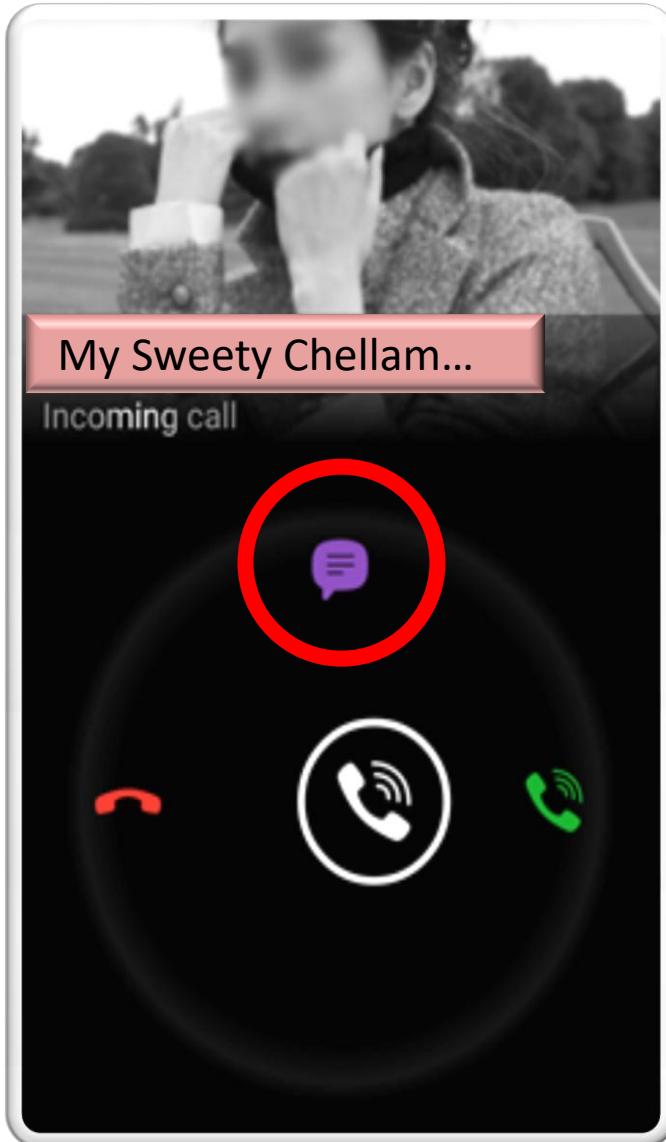




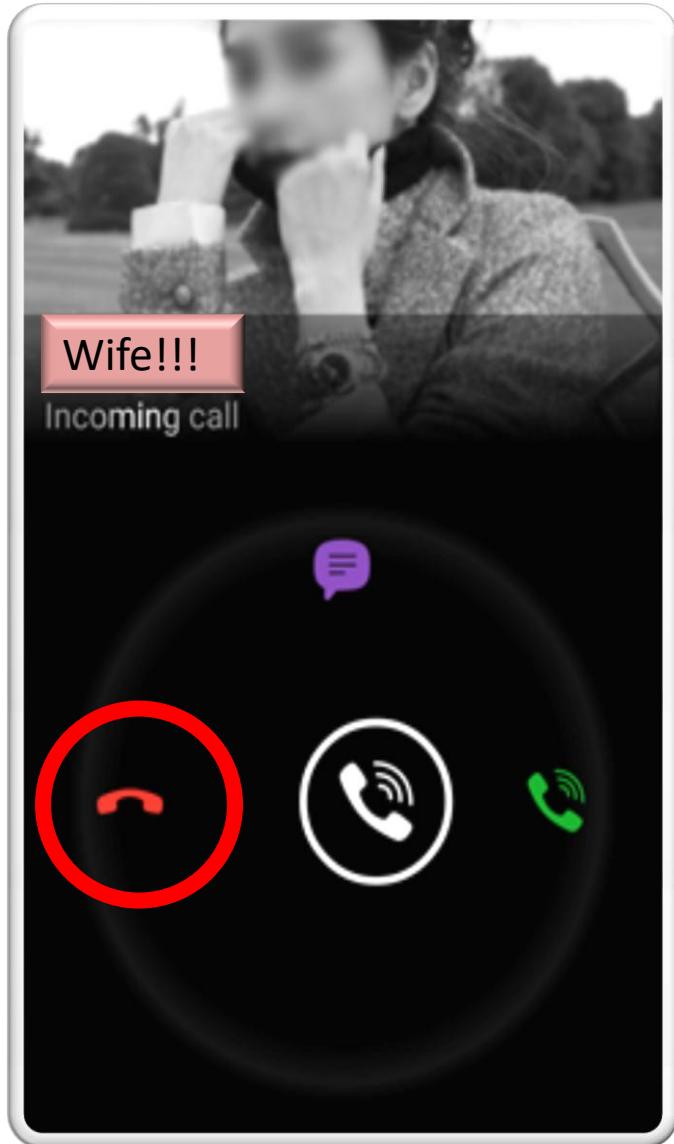
Accept



**SMS / Send Keys**



**Dismiss**



# Understanding!!!

- What do you do when phone alert arrives?
  - Switch To Phone Context
  - Perform the Action
    - Accept
    - Dismiss
    - SMS / SendKeys



# Web Applications

If you forget your password, we will identify you using:

Security Question\*

Security Answer\*

Preferred Language\*

**Personal Details**

First Name \*

Middle Name

Last Name\*

Gender\*

Male      Female

2010      1999

Prevent this page from creating additional dialogues.

OK

www.irctc.co.in says:  
Please enter captcha code

The form contains fields for security questions, personal details like name and gender, and a date selector. A checkbox at the bottom prevents the page from creating additional dialogs. An OK button is present. A red box highlights the message "www.irctc.co.in says: Please enter captcha code".

(Simple) Alert Dialog

If you forget your password, we will identify you by:

Security Question\*

Security Answer\*

Preferred Language\*

**Personal Details**

First Name \*

Middle Name

Last Name\*

Gender\*

Male  Female

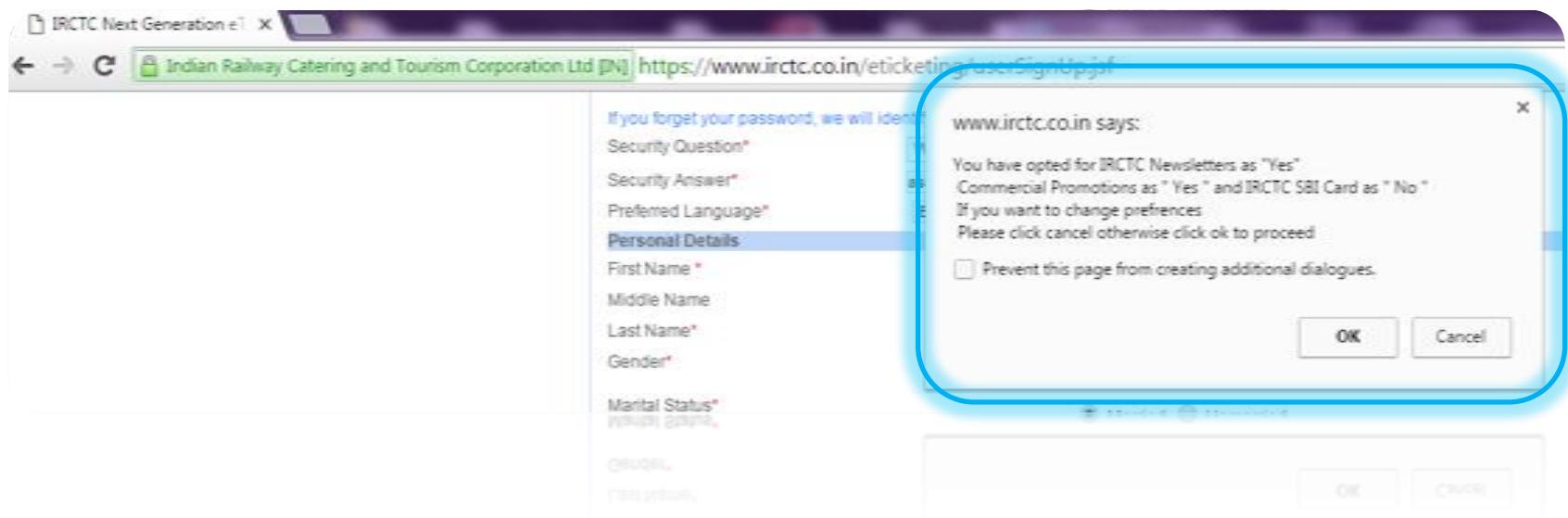
Prevent this page from creating additional dialogues.

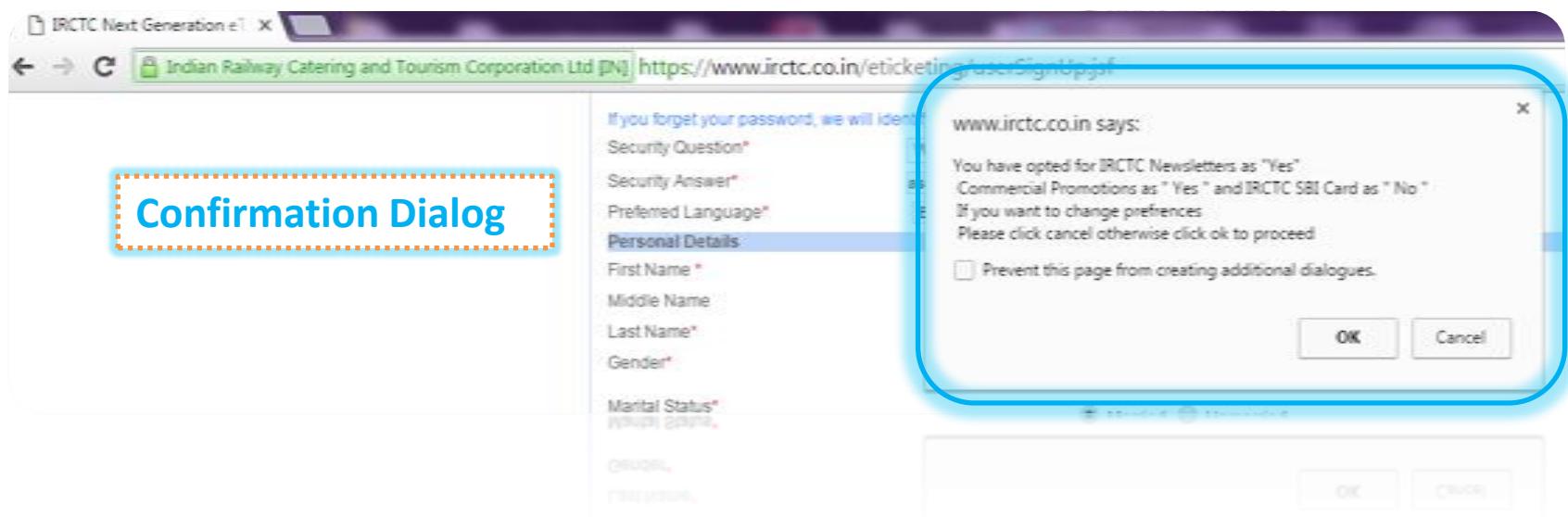
OK

www.irctc.co.in says:  
Please enter captcha code

captcha code

www.irctc.co.in





Javascript Tutorial - Prom... X

www.tizag.com/javascript/javascriptprompt.php

HTML Tutorial  
CSS Tutorial

**Scripting**

- Javascript Tutorial
- PHP Tutorial
- Perl Tutorial
- Ajax Tutorial
- ASP Tutorial
- VBScript Tutorial

**Databases**

- SQL Tutorial
- MySQL Tutorial

**Miscellaneous**

- XML Tutorial
- Webhost Tutorial
- Java Tutorial
- JavaScript Tutorial
- VBScript Tutorial
- ASP Tutorial
- Perl Tutorial
- Python Tutorial
- Java Script Tutorial
- VB Script Tutorial
- ASP Script Tutorial
- Perl Script Tutorial
- Python Script Tutorial

javaso

The J...  
used in m...  
information...  
give the s...

www.tizag.com says:

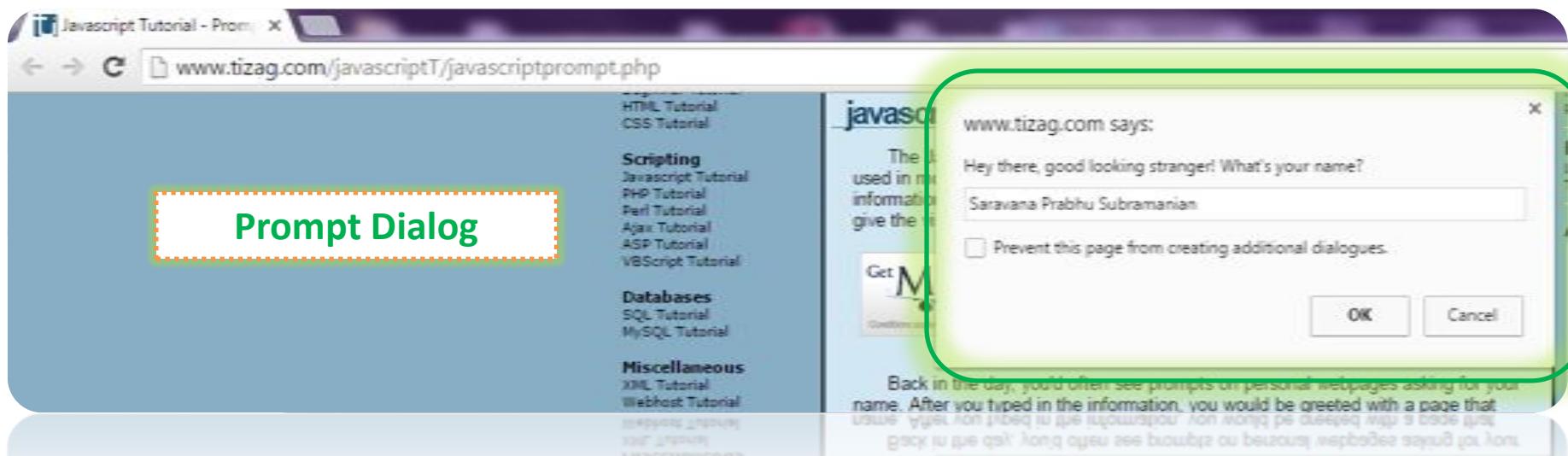
Hey there, good looking stranger! What's your name?

Saravana Prabhu Subramanian

Prevent this page from creating additional dialogues.

OK Cancel

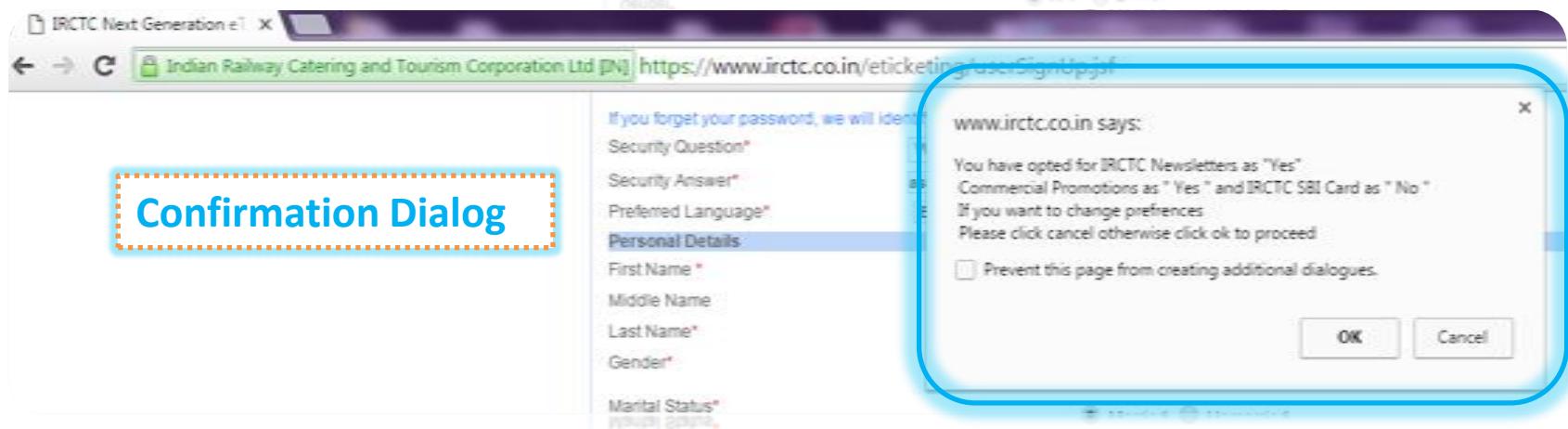
Back in the day, you'd often see prompts on personal webpages asking for your name. After you typed in the information, you would be greeted with a page that...



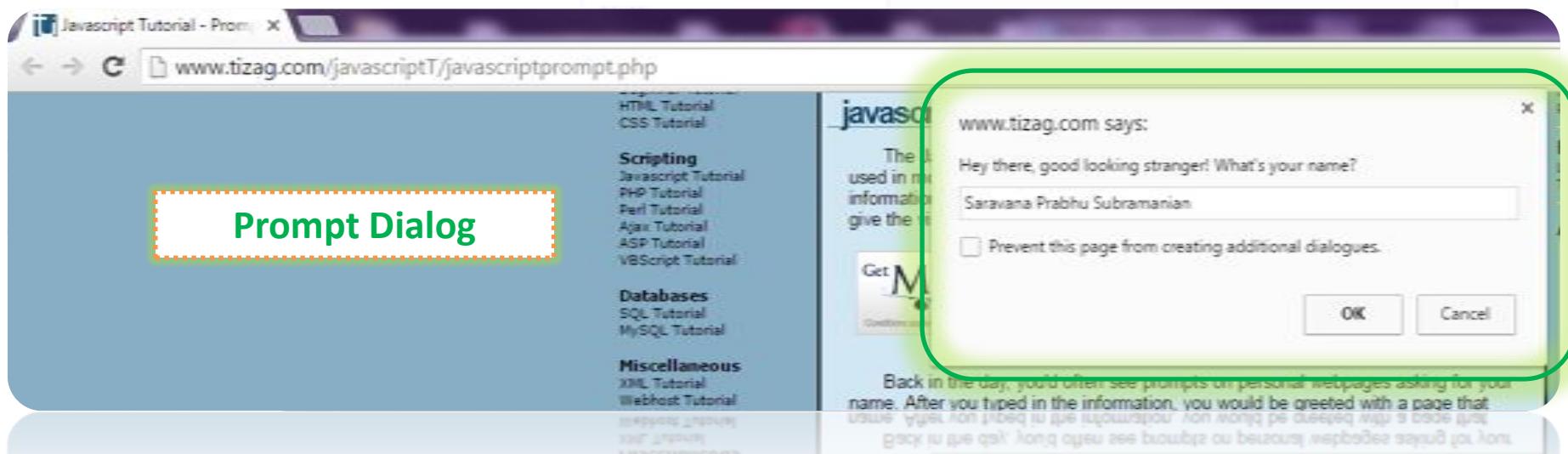
## (Simple) Alert Dialog



## Confirmation Dialog



## Prompt Dialog



# Understanding!!!

- Modal Dialogs
  - Must attend to it!!!
  - Cannot Inspect
- What is Attend to mean here?
  - Switch To Alert Context
  - Perform the Action on the Alert

driver.switchTo().alert().

# Understanding!!!

- Modal Dialogs
  - Must attend to it!!!
  - Cannot Inspect
- What is Attend to mean here?
  - Switch To Alert Context
  - Perform the Action on the Alert

```
driver.switchTo().alert().
```

(Simple) Alert Dialog

### Read or Get Text

Please enter captcha code

Prevent this page from creating additional dialogues.

Accept

OK

driver.switchTo().alert(). ???

## Read or Get Text

(Simple) Alert Dialog

www.irctc.co.in says:

Please enter captcha code

Prevent this page from creating additional dialogues.

Accept

OK

36363

Male Female

```
driver.switchTo().alert().accept();
```

```
driver.switchTo().alert().getText();
```

## Read or Get Text

(Simple) Alert Dialog

www.irctc.co.in says:

Please enter captcha code

Prevent this page from creating additional dialogues.

Accept

OK

36363

Male  Female

```
driver.switchTo().alert().accept();
```

```
String txt = driver.switchTo().alert().getText();
```

**Confirmation Dialog**

If you forget your password, we will identi...

Security Question\*

Security Answer\*

Preferred Language\*

**Personal Details**

First Name \*

Middle Name

Last Name\*

Gender\*

Registration / Log In

**Read or Get Text**

www.irctc.co.in says:

You have opted for IRCTC Newsletters as "Yes"  
Commercial Promotions as " Yes " and IRCTC SBI Card as " No "  
If you want to change preferences  
Please click cancel otherwise click ok to proceed.

 Prevent this page from creating additional dialogues**Accept****Dismiss****OK****Cancel****driver.switchTo().alert(). ???**

**Read or Get Text****Confirmation Dialog**

If you forget your password, we will identify you by:

Security Question\*

Security Answer\*

Preferred Language\*

**Personal Details**

First Name \*

Middle Name

Last Name\*

Gender\*

Agreement checkbox

www.irctc.co.in says:

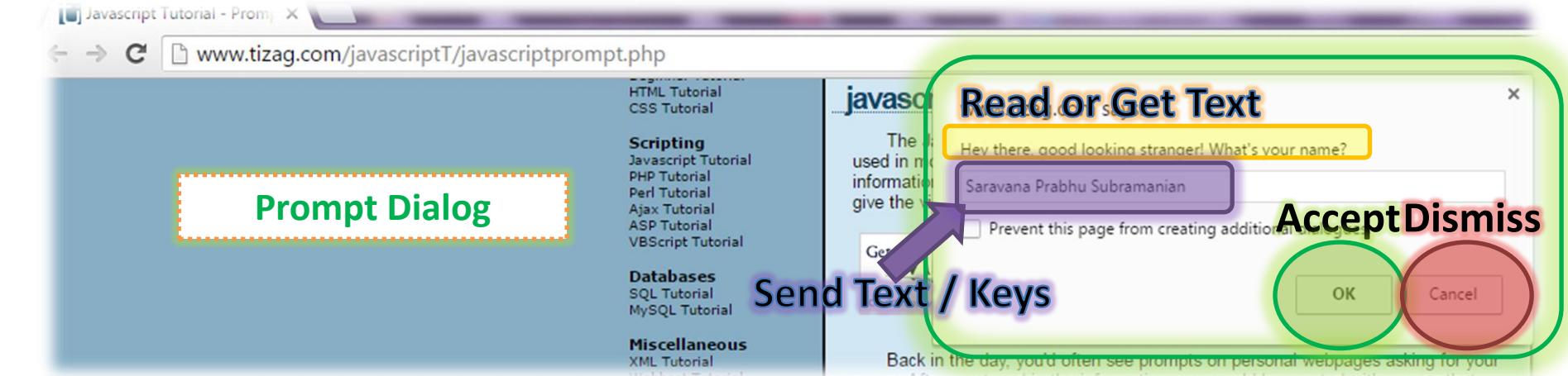
You have opted for IRCTC Newsletters as "Yes"  
Commercial Promotions as " Yes " and IRCTC SBI Card as " No "  
If you want to change preferences  
Please click cancel otherwise click ok to proceed.

 Prevent this page from creating additional dialogues.**Accept** **Dismiss**

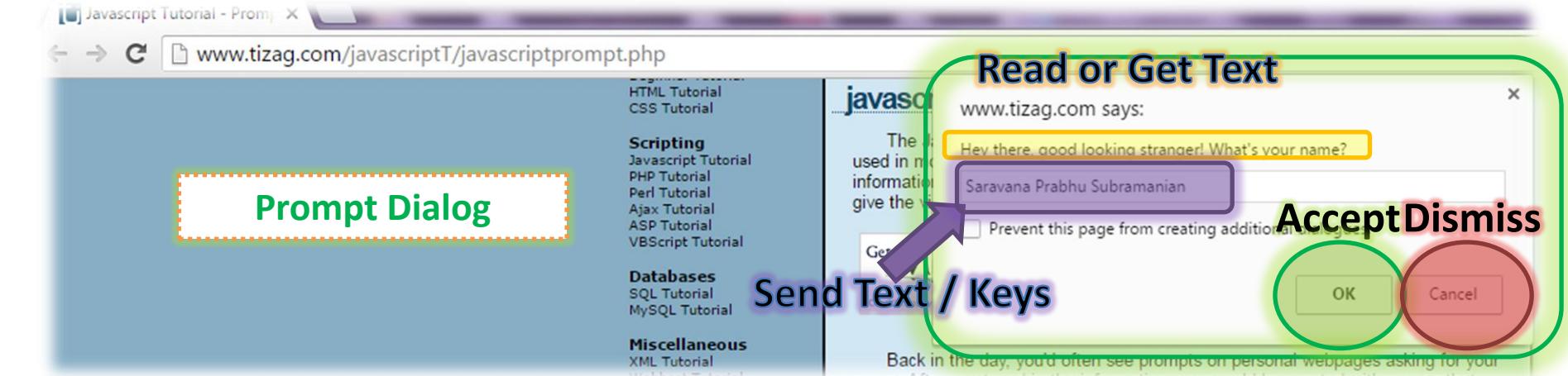
OK

Cancel

**driver.switchTo().alert().accept();****driver.switchTo().alert().dismiss();****String txt = driver.switchTo().alert().getText();**



# driver.switchTo().alert().???

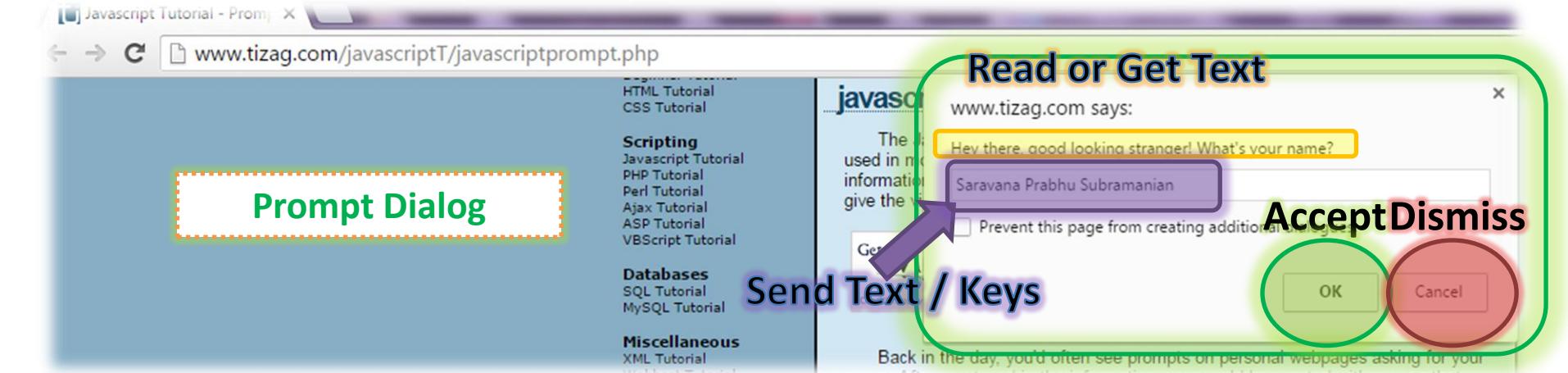


```
driver.switchTo().alert().accept();
```

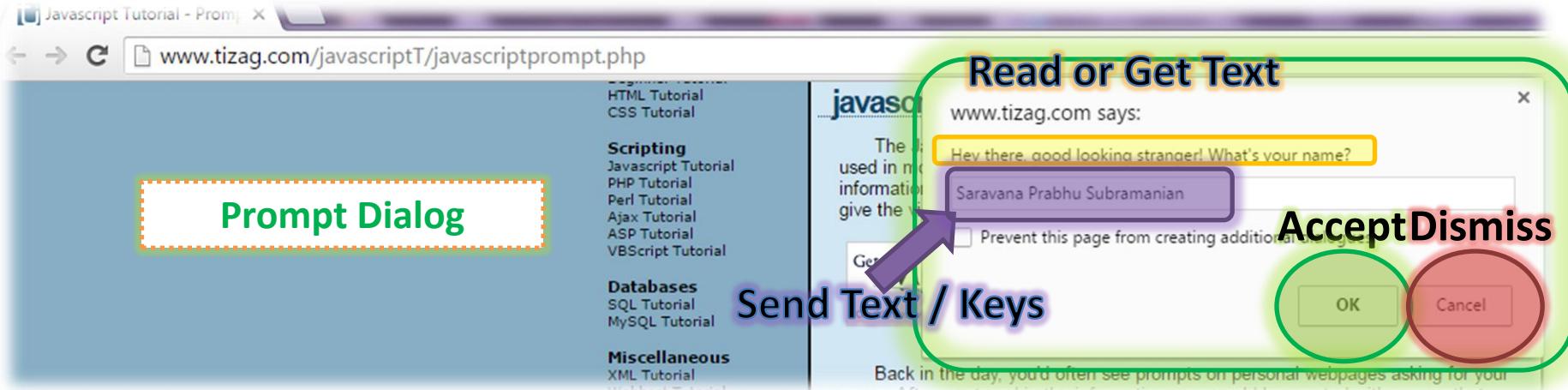
```
driver.switchTo().alert().dismiss();
```

```
String txt = driver.switchTo().alert().getText();
```

```
driver.switchTo().alert().sendKeys("the txt");
```



```
String.textLabel =  
driver.switchTo().alert().getText();  
driver.switchTo().alert().sendKeys("hello...");  
driver.switchTo().alert().accept();
```



```
Alert promptAlert = driver.switchTo().alert();
String.textLabel = promptAlert.getText();
promptAlert.sendKeys("hello...");
promptAlert.accept();
```

# Class Work

1. Access <https://www.irctc.co.in/eticketing/userSignUp.jsf>
2. Click “Check Availability”
3. Print the text in Alert
4. Accept the Alert
5. Type “Test\_UserID” in User ID field

# Exceptions!!!

- When?
  - Alert is present in Application Under Test (AUT)  
But NOT handled (*or Unhandled*) in the code!
  - Alert is NOT present in AUT  
But there is code w.r.t handling Alert!

# UnhandledAlertException

Sarvana

IRCTC Next Generation eT Indian Railway Catering and Tourism Corporation Ltd [IN] https://www.irctc.co.in/eticketing/userSignUp.jsp

Indian Railway Catering and Tourism Corporation Limited  
A Government of India Enterprise

Feed-on-Track E-Bedroll Cab / Bus IRCTC OYO Hotels E-Wheelchair Flight Tickets Accommodations Mobile Apps

Facility for cancelling Counter ticket and acceptance of International Cards launched on IRCTC

Individual Registration \* mandatory GARBAGE/JUNK VALUES IN PROFILE MAY LEAD TO DEACTIVATION Please use a valid E-Mail ID and mobile number in registration.

User ID\* Check Availability Between 3 to 10 character. Only letter, number and underscore are allowed.

Password\* Min 8 character & Max 15 character. Password must contain atleast one small & one capital alphabet and numeric digit.

Confirm Password\*

If you forgot your password, we will identify you with this information

Security Question\* Select your Security Question

Security Answer\*

Preferred Language\* English

Personal Details

First Name\* Middle Name (Optional)

Last Name\* Last Name\* (Optional)

Gender\* Male Female

Marital Status\* Married Unmarried

Date Of Birth\* 01 JAN 1998

Occupation\* Select Occupation

Aadhaar Card No

PAN Card

Email\* (Optional)

Mobile\* +91

Nationality\* Select a Nationality

Residential Address

Flat/Door/Block No.\* (Optional)

Street/Lane (Optional)

Area/Locality (Optional)

Country\* Select a Country

pin code\*

state\*

City/Town\* Select city

Post Office\* Select a Post Office

phone\*

Copy Residence to office Address Yes No

Type code shown Y9HR9 refresh

Captcha letters are case sensitive and to be entered in Upper Case only

Subscription to IRCTC New letters/ Promotions/IRCTC SBI Card through email/ SMS

IRCTC Newsletters Yes No

Commercial Promotions Yes No

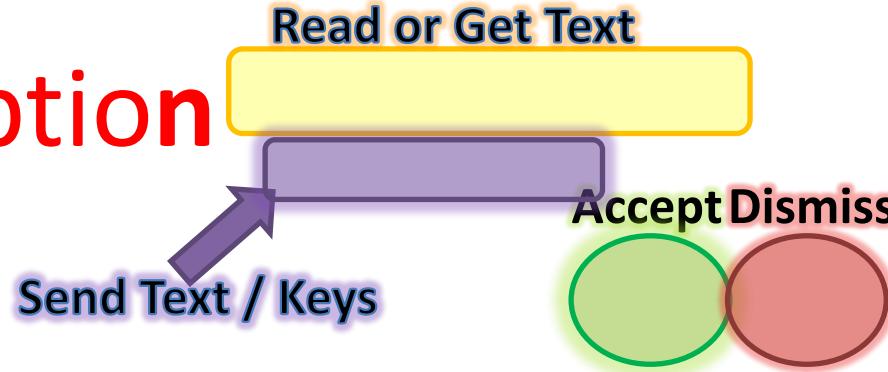
Please inform me about IRCTC SBI Card through phone Yes No

Submit Registration Form>>>

Copyright © 2016 - www.irctc.co.in All Rights Reserved  
Designed and maintained by CRIS  
Version 5.0.0.47

VeriSign MasterCard AMERICAN EXPRESS SafeKey Rupay irctc.com

# NoAlertPresentException



```
driver.switchTo().alert().accept();
```

```
driver.switchTo().alert().dimiss();
```

```
String txt = driver.switchTo().alert().getText();
```

```
driver.switchTo().alert().sendKeys("the txt");
```

# Exceptions!!!

- **UnhandledAlertException**
  - Alert is present in Application Under Test (AUT)
  - But NOT handled (or Un Handled) in the code!
  - *org.openqa.selenium.UnhandledAlertException*
- **NoAlertPresentException**
  - Alert is NOT present in AUT
  - But there is code w.r.t handling Alert!
  - *org.openqa.selenium.NoAlertPresentException*

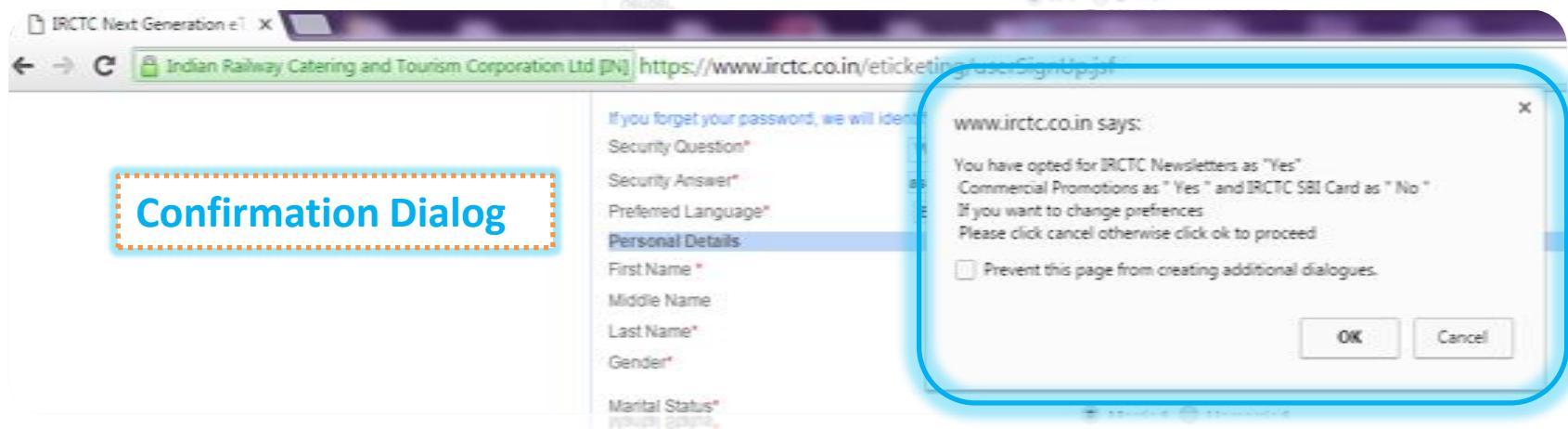


LET'S  
RECAP

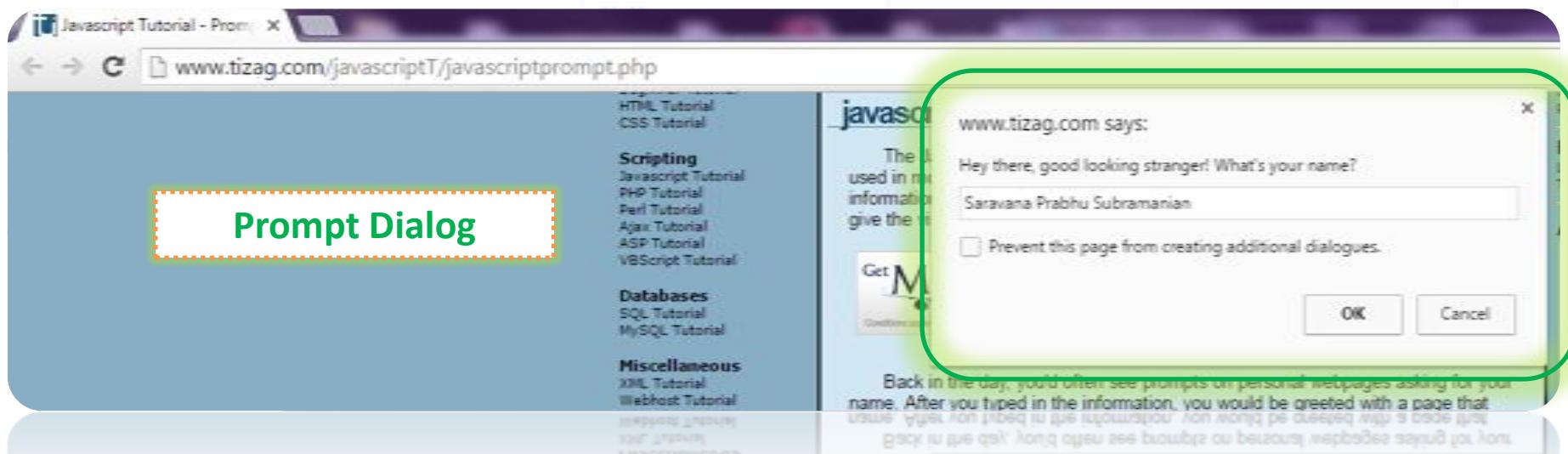
## (Simple) Alert Dialog



## Confirmation Dialog



## Prompt Dialog



- Modal Dialogs
  - Must attend to it!!!
  - Cannot Inspect
- What is Attend to mean here?
  - Switch To Alert Context
  - Perform the Action on the Alert

```
driver.switchTo().alert().accept();
```

```
driver.switchTo().alert().dismiss();
```

```
String txt = driver.switchTo().alert().getText();
```

```
driver.switchTo().alert().sendKeys("the txt");
```

# Exceptions!!!

- **UnhandledAlertException**
  - Alert is present in Application Under Test (AUT)
  - But NOT handled (or Un Handled) in the code!
  - *org.openqa.selenium.UnhandledAlertException*
- **NoAlertPresentException**
  - Alert is NOT present in AUT
  - But there is code w.r.t handling Alert!
  - *org.openqa.selenium.NoAlertPresentException*

# Questions

Inbox (9,439) - ssp.psg@gmail.com

https://mail.google.com/mail/u/0/#inbox?compose=new

# Handling Window Dialogs

Gmail ▾

Compose

Inbox (9,439)

Starred

Sent Mail

Saravana

rashi ga You: HI

Vishnu jai gurud

Eers Hs Invitat

Karthik

Ekta La You: Jai O

billakan You: anyt

srinu ric You: :

Ishwary Sure sir

Ganapa You: sam

Archive You v

balu, K

Tournament team I

Deepak: i got a call fror

ravi, Ashima, Sukril

Chenthill P ssip sir

i vote for a better in

Deepak Lanka

Open Desktop

Organize New folder

Name Size Item type Date modified

VI Issue.txt 126 KB Text Docu... 19-05-2016 10:39

TP2 - VI Connection.txt 126 KB Text Docu... 19-05-2016 10:31

RE 314867 Recipe Generation Dialog reflects Device Layer when Config xml is... 71 KB Outlook It... 19-05-2016 10:25

13227305\_1164353860254947\_6615697170449151846\_o.jpg 119 KB JPEG image 18-05-2016 17:48

13255992\_1164291493594517\_9216519973366606800\_n.jpg 119 KB JPEG image 18-05-2016 17:46

13248573\_1164293143594352\_1248353711064744488\_o.jpg 145 KB JPEG image 18-05-2016 17:46

Device Layer in Flat.png 201 KB PNG image 18-05-2016 17:23

Recipe Generation Missing.png 88 KB PNG image 18-05-2016 14:15

Exceptions in Exception Log Viewer When Launching 53 build on TA2.txt 8 KB Text Docu... 12-05-2016 17:10

AdminUI\_Log.txt 22 KB Text Docu... 10-05-2016 19:40

Dist.png 87 KB PNG image 10-05-2016 19:36

Error in TeslaAMQ.txt 5 KB Text Docu... 10-05-2016 10:27

Error\_AMQ.png 726 KB PNG image 10-05-2016 10:16

Tag Not Found.png 73 KB PNG image 09-05-2016 16:37

New passcode is now available for case id 0500954401.msg 48 KB Outlook It... 09-05-2016 00:06

Records Management Folder 2 KB Shortcut 07-05-2016 22:28

WithWafer\_Passed.txt 4 KB Text Docu... 04-05-2016 17:14

RE Tesla codedui Regression.msg 81 KB Outlook It... 04-05-2016 17:04

RE Tesla AMQ - 21 1 052 Few test cases failed in repeat#2 (which were passe... 133 KB Outlook It... 28-04-2016 01:35

PM Service UI.png 60 KB PNG image 27-04-2016 14:13

Error Tesla AMQ.txt 26 KB Text Docu... 26-04-2016 14:15

File name: All Files Open Cancel

CommonFloor (2) Response to your property listing: 2BHK Apartment for Rent in Saravanampatti,

me, Sakthivel (2) Requesting Details - testleafcustomer@gmail.com leaf@123 On 15 May 2016 7:22 pm

CommonFloor (2) Response to your property listing: 2BHK Apartment for Rent in Saravanampatti,

Sunstone Learning Courses Your decision about joining Sunstone Program - Hi Saravana, We would like to give

Dhaya, me (4) Need your support - Planning to Post Pone my Selenium Training - Dear Goutham, Th

vs devi My strengths and Weakness - STRENGTHS: 1. Confidentiality and complaint handling

Comic Sans MS T B U A E I C G Send A

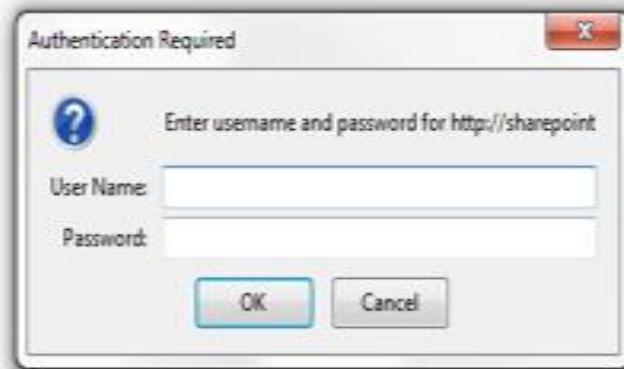
Connecting...

sharepoint/div/win/WINSQC\_AUT/Status%20Update/Forms/AllItems.aspx

X

Search

- <http://username:password@example.com/>
- [http://ssp:star123@sharepoint/div/win/WINSQC\\_AUT/AllItems.aspx](http://ssp:star123@sharepoint/div/win/WINSQC_AUT/AllItems.aspx)



# Handling Sweet Alerts

← → C t4t5.github.io/sweetalert/

# Sweet Alert

A BEAUTIFUL REPLACEMENT FOR JAVASCRIPT'S "ALERT"

## SO... WHAT DOES IT DO?

Here's a comparison between the standard JavaScript alert function, while the

function, while the



Oops...

Something went wrong!

OK

CODE:  

```
alert("Oops... Something went wrong!");
```

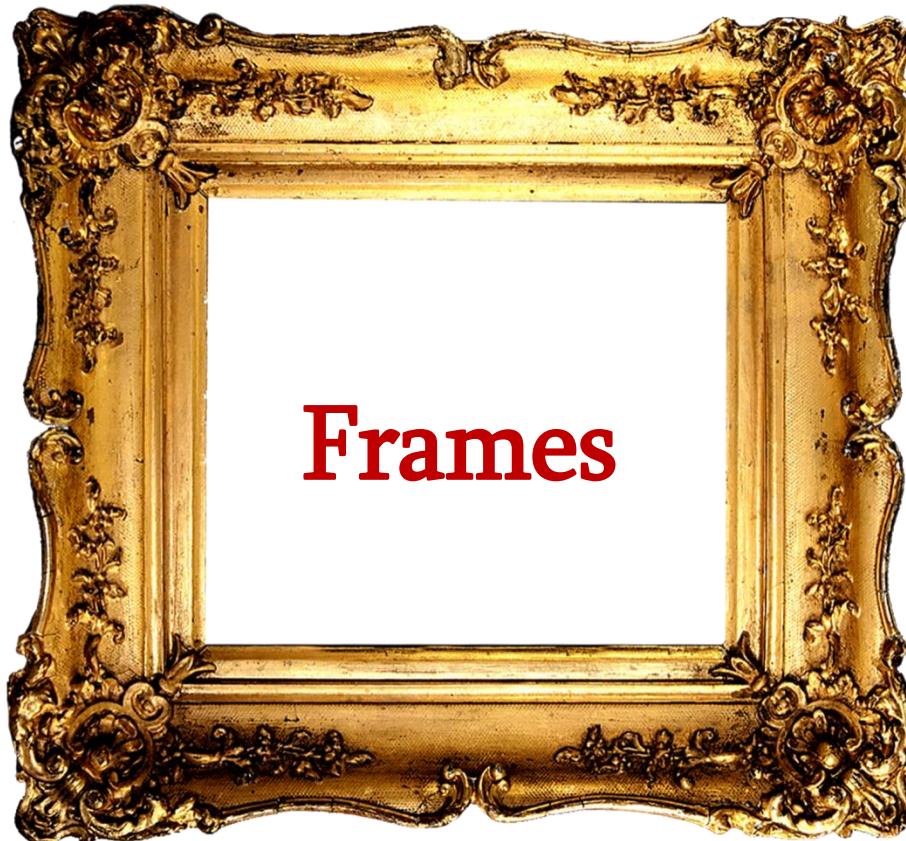
Pretty cool huh? SweetAlert automatically centers itself on the page and looks great no matter if you're using a desktop computer, mobile or tablet. It's even highly customizable, as you can see below!

# Additional References

- Try hands on
  - (Must Refer) [http://www.w3schools.com/js/js\\_popup.asp](http://www.w3schools.com/js/js_popup.asp)
  - [http://www.w3schools.com/js/tryit.asp?filename=tryjs\\_alert](http://www.w3schools.com/js/tryit.asp?filename=tryjs_alert)
  - [http://www.w3schools.com/js/tryit.asp?filename=tryjs\\_confirm](http://www.w3schools.com/js/tryit.asp?filename=tryjs_confirm)
  - [http://www.w3schools.com/js/tryit.asp?filename=tryjs\\_prompt](http://www.w3schools.com/js/tryit.asp?filename=tryjs_prompt)
  - <http://t4t5.github.io/sweetalert/>
- How to Handle Windows Dialog?
  - (Must Refer) <https://www.youtube.com/watch?v=NXhi5QwY4mk>
  - (Must Refer) <https://www.seleniumeasy.com/selenium-tutorials/webdriver-file-upload-using-robots>
  - <http://www.joecolantonio.com/2014/07/02/selenium-autoit-how-to-automate-non-browser-based-functionality/>
- If you want to create Alerts/Confirmation/Prompt in your website
  - <http://codetutorial.com/javascript/javascript-dialog-box>

# Documentation - Java

- <https://docs.oracle.com/javase/7/docs/api/>



Frames

CONCEPT



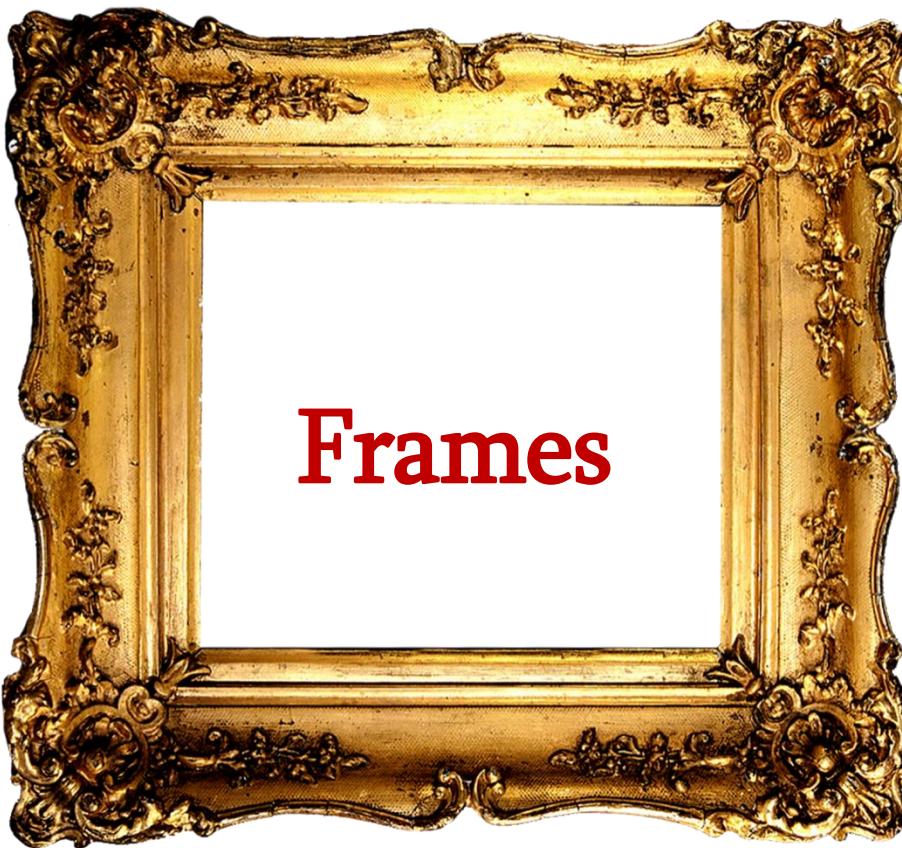
24-9-2010

# Understanding!!!

- What do you do when you want to EAT?
  - Get Out of TL
  - Get Into HSB
    - Perform The Action
  - Get Out Of HSB
- What do you do when you have to Send Off Your Friend?
  - Get Into Chennai Central RS
    - Perform The Action
  - Get Out Of Chennai Central RS

# Understanding!!!

- What do you do when you have to Watch a Movie in Luxe @ Phoenix Mall?
  - Get Into Phoenix Mall
    - Get Into Luxe
      - Perform The Action
    - Get Out Of Luxe
  - Get Out Of Phoenix Mall



# Frames



# **What is Frames?**

**Frames (HTML Frames)** are used to divide your browser window into multiple sections where each section can load a separate **HTML** document.

For example, within the same window, one frame might display a static banner, a second a navigation menu, and a third the main document that can be scrolled through or replaced by navigating in the second frame.

# Why Frames?

- Better organized
  - Static and Dynamic content
  - Ads / Banners / Main Content
- Better presentation
- Multiple pages in the same browser
- Reduces server load

# Disadvantages of Frames?

- Search Engines – Parsing / Lower Rank
- Old browsers which does not support Frames
- Printing

explore....

# How is it Implemented by Developers?

- <frame
- <iframe

# What is iframe?

- An **iframe** (Inline Frame) is a HTML document embedded inside another HTML document on a website.
- The **iframe** HTML element is often used to insert content from another source, such as an advertisement, into a Web page.
- **IFRAME** able to "float" within content in a page whereas frame is static



# <iframe Attributes?

- id
  - name
  - style
  - class
  - src
  - title
  - height
  - width, etc...
- 
- NOT ALL OF THESE MANDATORY
  - DEPENDS ON DEVELOPER!!!



# Quiz: How Many Frames?

- <https://www.facebook.com/>
- [https://en.wikipedia.org/wiki/Main\\_Page](https://en.wikipedia.org/wiki/Main_Page)
- <https://docs.oracle.com/javase/7/docs/api/>
- <https://jqueryui.com/selectable/>

# **Reality vS. illusion**

**SUCCESS**



**WHAT PEOPLE THINK  
IT LOOKS LIKE**

**SUCCESS**



**WHAT IT REALLY  
LOOKS LIKE**



# Quiz: How Many Frames?

- <https://www.facebook.com/>
- [https://en.wikipedia.org/wiki/Main\\_Page](https://en.wikipedia.org/wiki/Main_Page)
- <https://docs.oracle.com/javase/7/docs/api/>
- <https://jqueryui.com/selectable/>
  
- <frame or <iframe tag
- Right Click
  - “This Frame” in FireFox
  - View Frame Source / Reload Frame in Chrome



# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate Up! To see if there is any Frame / iFrame tag
- Enter into the Frame
- Perform Action(s)
- Come out of the Frame

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- Enter into the Frame
- Perform Action(s)
- Come out of the Frame

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- **Enter into the Frame**
- Perform Action(s)
- Come out of the Frame

# How To Enter Into Frame?

```
driver.switchTo().frame()
```

# How To Enter Into Frame?

```
driver.switchTo().frame()
```

# How To Enter Into Particular Frame?

```
driver.switchTo().frame()
```

# How To Enter Into Particular Frame?

```
driver.switchTo().frame(????)
```

# 3 Options To Enter Into The Frame:

driver.switchTo().frame(**id or name**)

driver.switchTo().frame(**index**)

driver.switchTo().frame(**WebElement**)

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- **Enter into the Frame**
- Perform Action(s)
- Come out of the Frame

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- Enter into the Frame
- **Perform Action(s)**
- Come out of the Frame

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- Enter into the Frame
- **Perform Action(s)**
- Come out of the Frame

# How to Perform Action(s)?

```
driver.findElement(By.id("username")).sendKeys("ssp");
```

```
driver.findElement(By.id("password")).sendKeys("ssp");
```

```
driver.findElement(By.className("btn")).click();
```

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- Enter into the Frame
- **Perform Action(s)**
- Come out of the Frame

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- Enter into the Frame
- Perform Action
- Come out of the Frame

# Come out of the Frames

```
driver.switchTo().defaultContent();
```

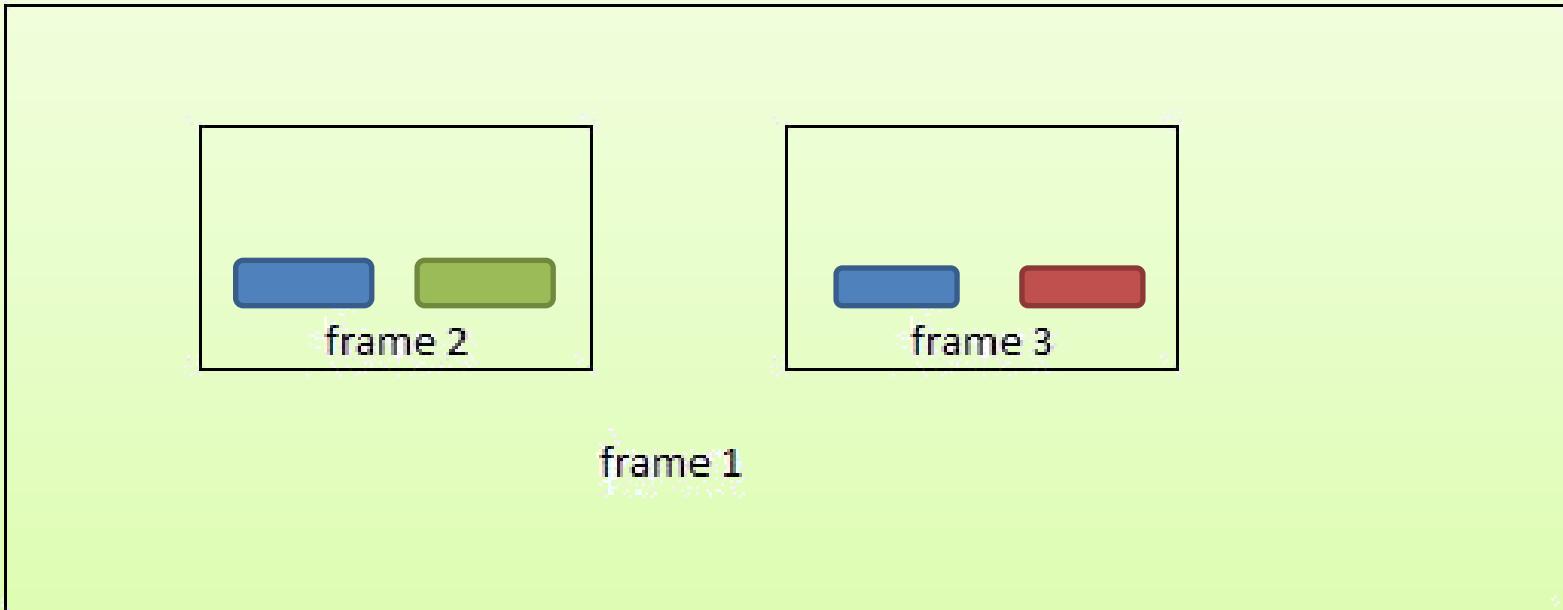
# Class Work

1. Access <https://jqueryui.com/selectable>
2. Click “Item 3”
3. Click “Download”

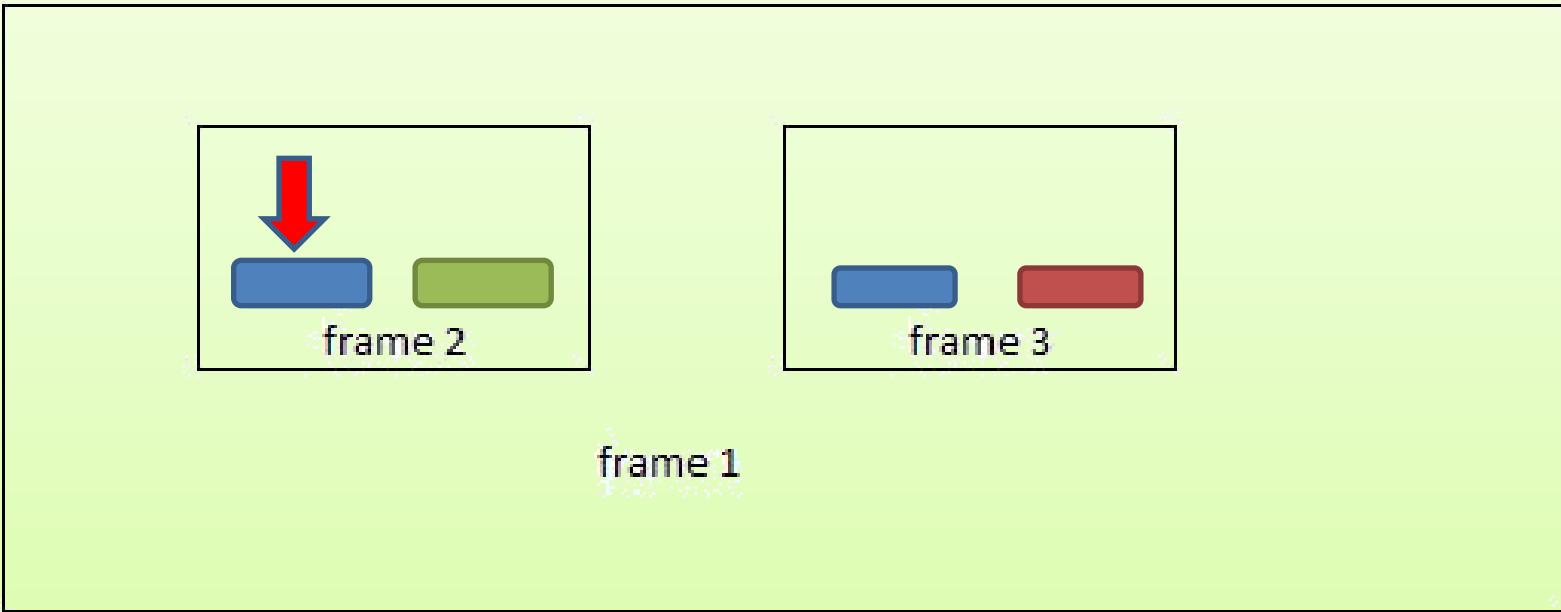
# Come out of the FrameeeeeeeeeeeeS

```
driver.switchTo().defaultContent();
```

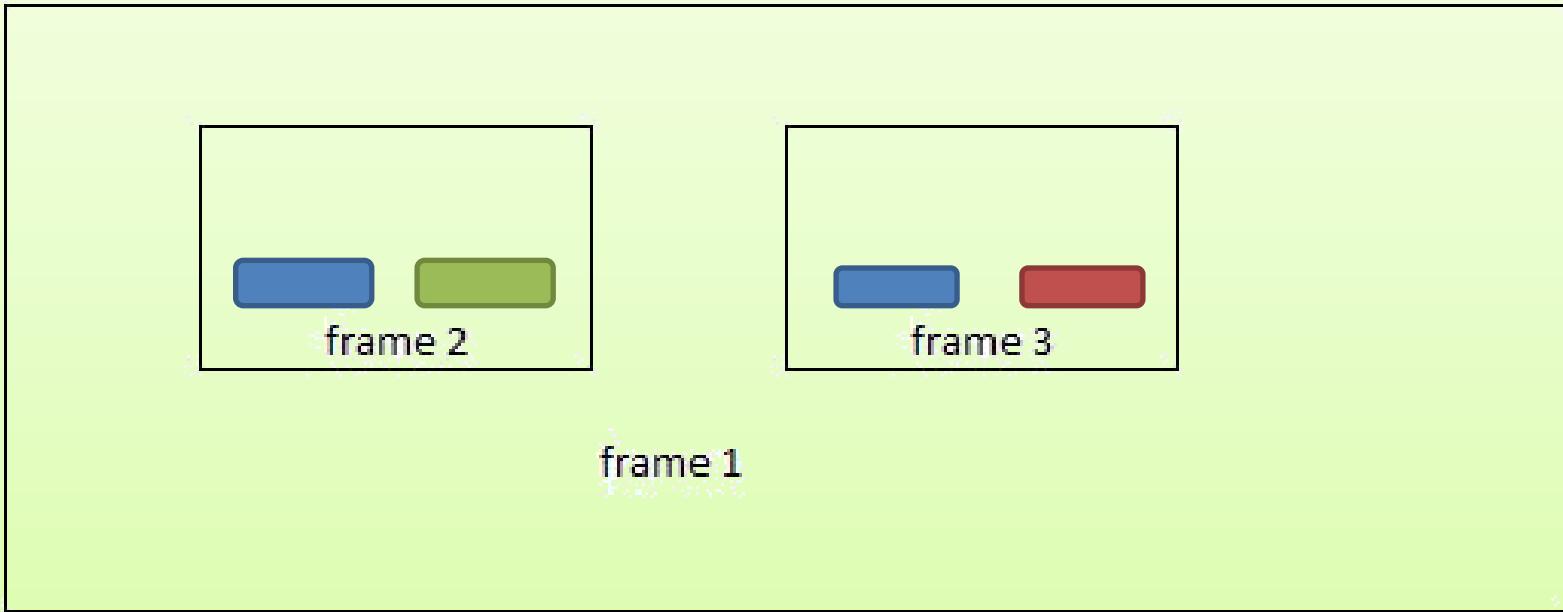
# Nested Frame



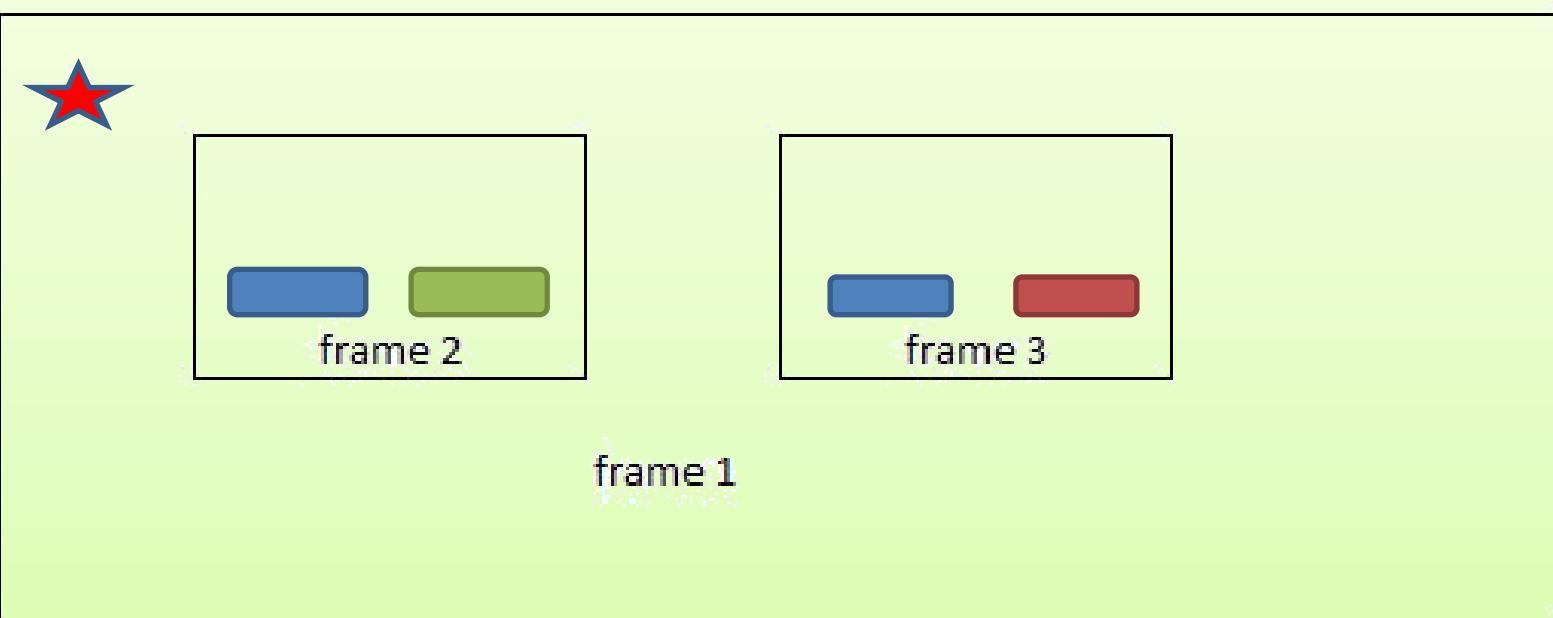
# Nested Frame



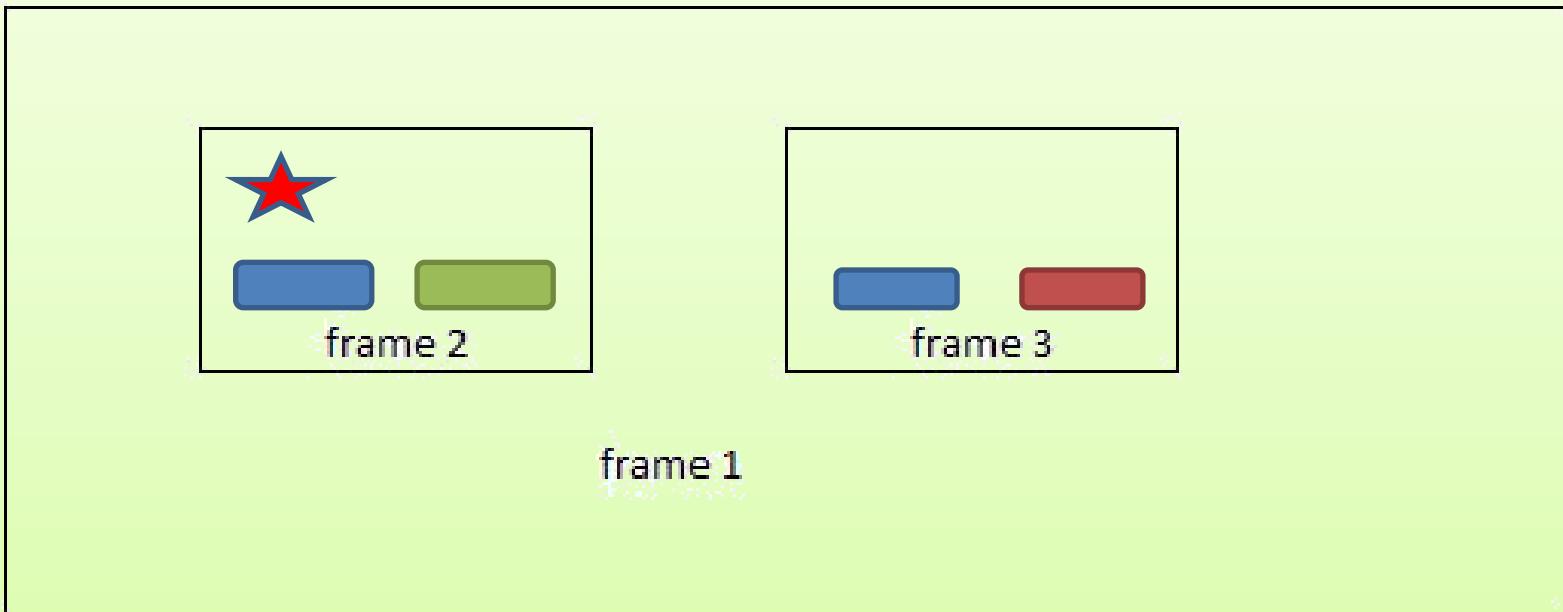
# Nested Frame



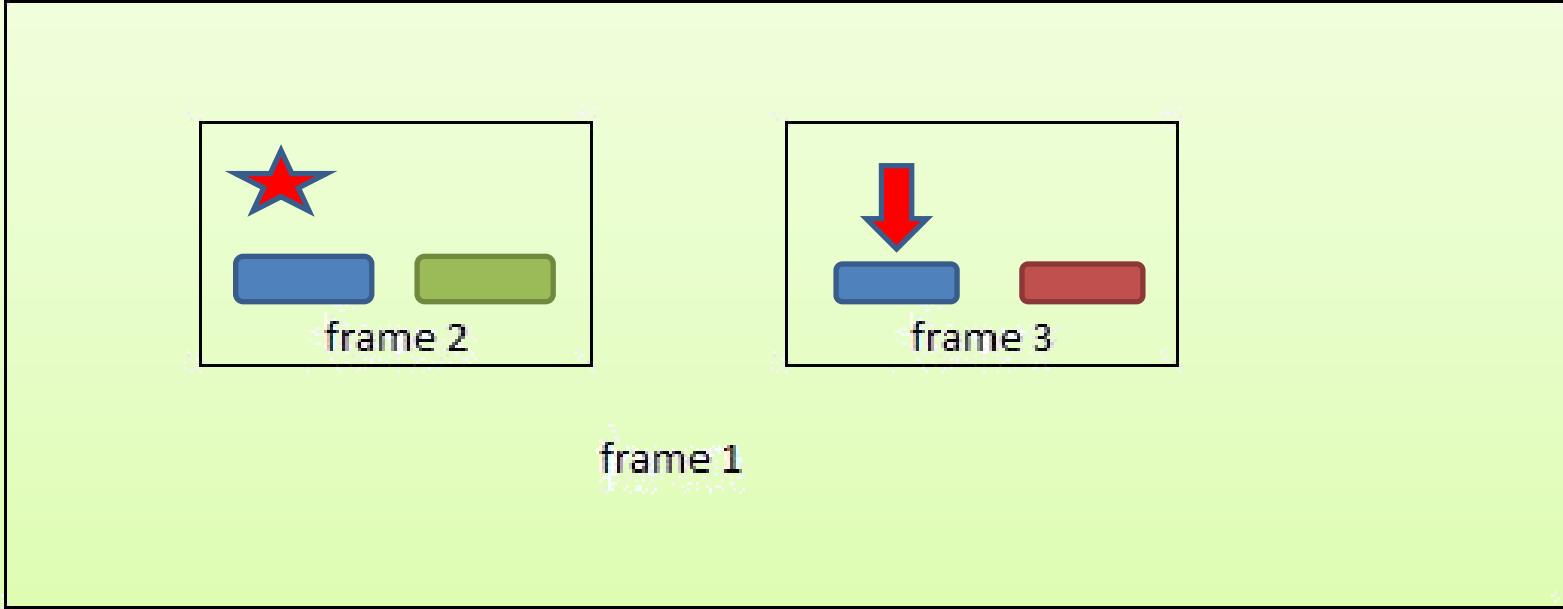
```
driver.switchTo().frame("frame1");
```

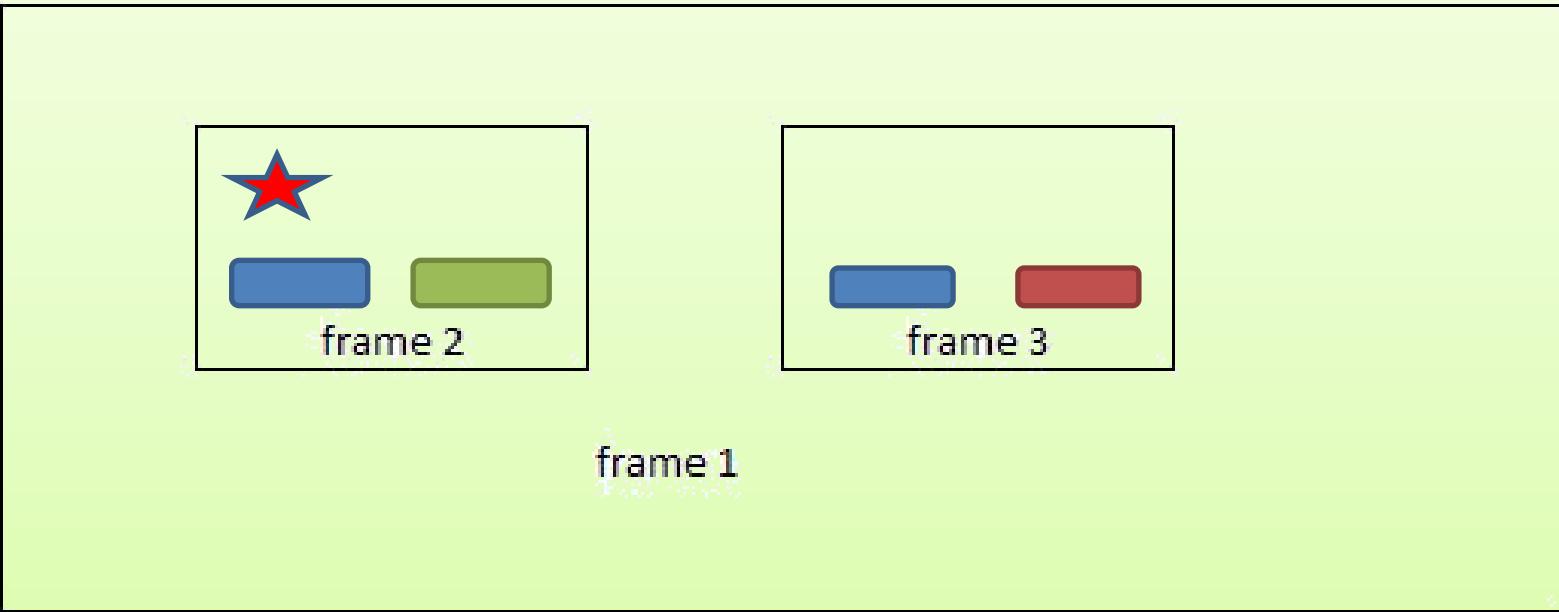


```
driver.switchTo().frame("frame2");
```

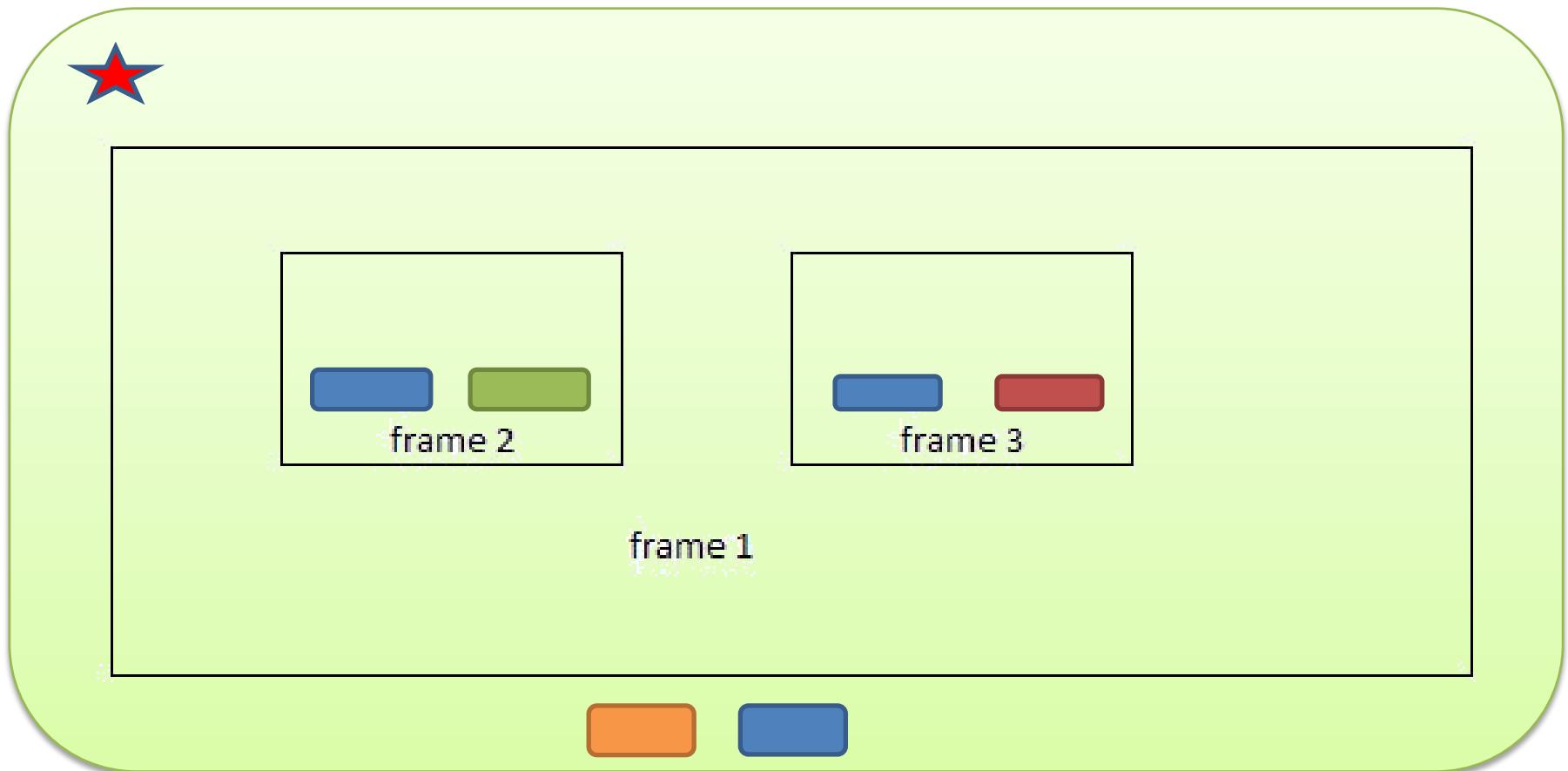


# Click Blue Button in Frame #3

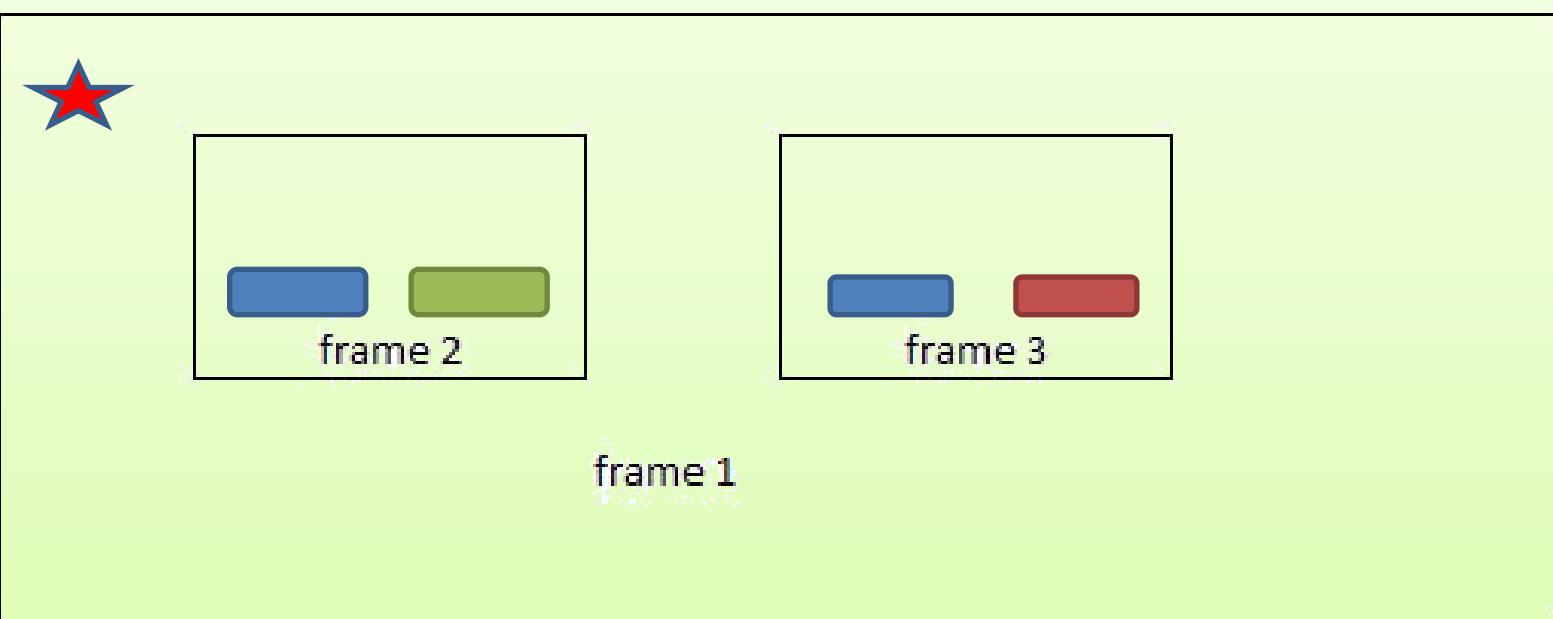




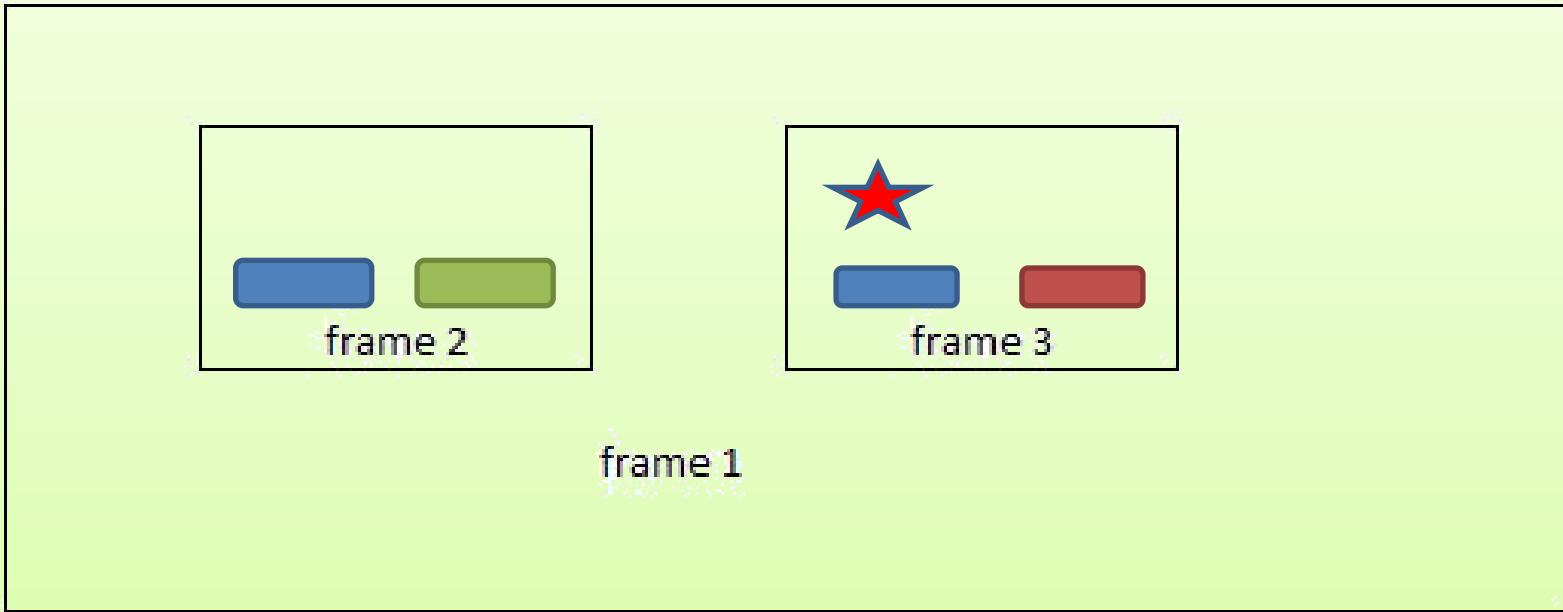
# driver.switchTo().defaultContent();



```
driver.switchTo().frame("frame1");
```



```
driver.switchTo().frame("frame3");
```



# Exceptions!!!

- **NoSuchFrameException**
  - Frame is NOT present in AUT
  - Code is referring to Frame
  - org.openqa.selenium.NoSuchFrameException



LET'S  
RECAP



# **What is Frames?**

**Frames (HTML Frames)** are used to divide your browser window into multiple sections where each section can load a separate **HTML** document.

For example, within the same window, one frame might display a static banner, a second a navigation menu, and a third the main document that can be scrolled through or replaced by navigating in the second frame.

# How is it Implemented by Developers?

- <frame
- <iframe

# Is WebElement inside Frame?

- Inspect the element
- View the HTML Source Code
- Navigate up, to see if there is any Frame / iFrame tag
- Enter into the Frame
- Perform Action(s)
- Come out of the Frame

# 3 Options To Enter Into The Frame:

driver.switchTo().frame(**id or name**)

driver.switchTo().frame(**index**)

driver.switchTo().frame(**WebElement**)

# How to Perform Action(s)?

```
driver.findElement(By.id("username")).sendKeys("ssp");
```

```
driver.findElement(By.id("password")).sendKeys("ssp");
```

```
driver.findElement(By.className("btn")).click();
```

# Come out of the FrameeeeeeeeeeeeS

```
driver.switchTo().defaultContent();
```

```
driver.switchTo().parentFrame();
```

# Exceptions!!!

- **NoSuchFrameException**
  - Frame is NOT present in AUT
  - Code is referring to **Frame**
  - org.openqa.selenium.NoSuchFrameException

# Questions

# Class Assignment

1. Access <https://jqueryui.com/draggable/>
2. Get the label/text in the box  
“Drag me around”
3. Click “[API documentation](#)”