

Frame, Window & Alert

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Switching

- ▶ To switch to a frame, window or alert, we use WebDriver method:
 - ▶ `WebDriver.TargetLocator switchTo()`

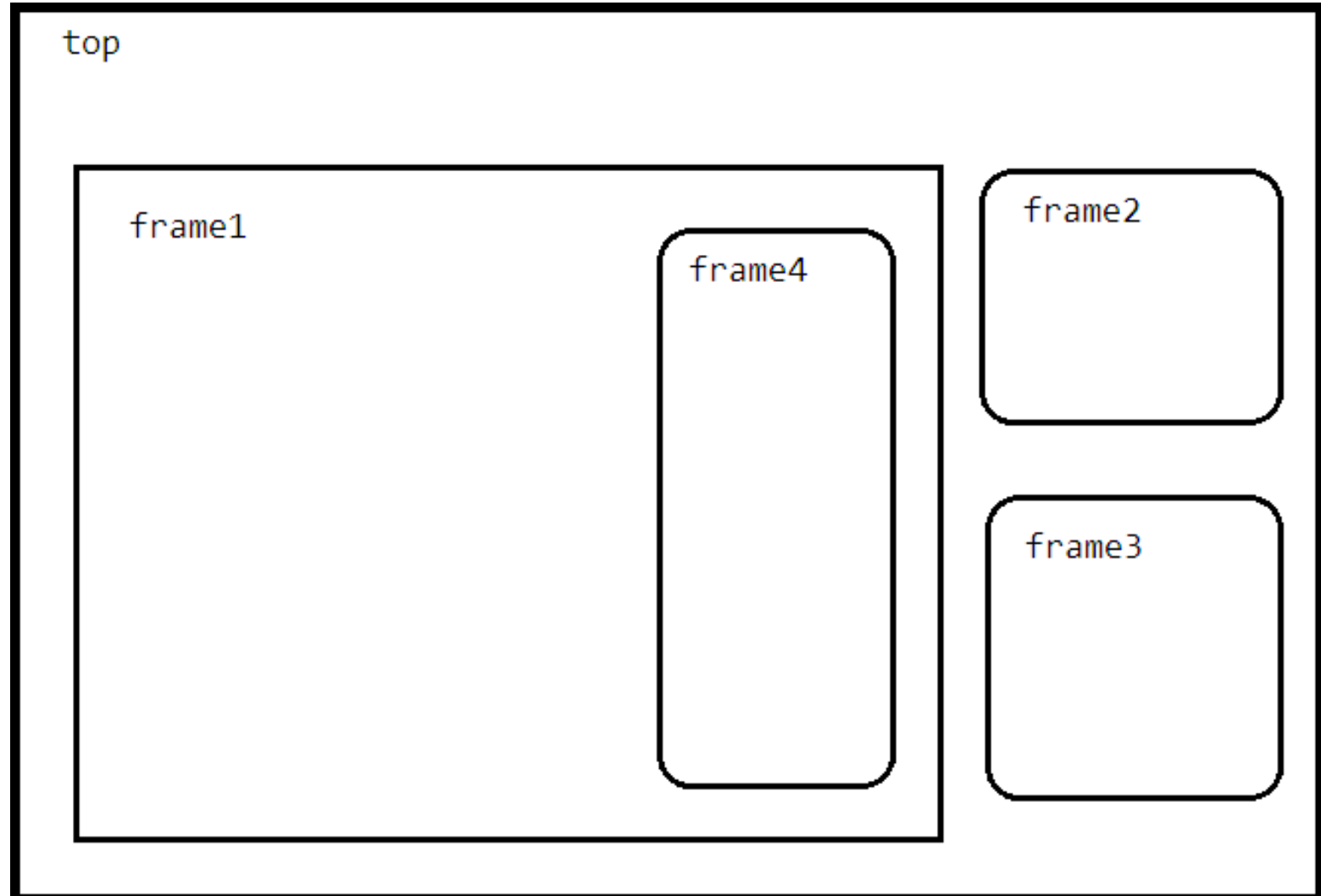


Frame or iFrame

- ▶ An iFrame is an WebElement that contains an HTML document inside it.
- ▶ iFrame is generally used to insert content from another source, such as an advertisement, into a web page.
- ▶ A Web designer can change an iFrame's content without reloading entire website.
- ▶ A website can have multiple frames on a single page.
- ▶ A frame can also have inner frames.
- ▶ From a inner frame, outer frame is not visible.
- ▶ An element will be visible only when the control is inside that frame. We need to switch to that frame in order to access it.



Frame: A Snapshot



Frame switching

- ▶ We can switch to a frame by:
 - ▶ `WebDriver frame(int index)`
 - ▶ `WebDriver frame(String nameOrId)`
 - ▶ `WebDriver frame(WebElement frameElement)`
 - ▶ For switching to main document:
 - ▶ `WebDriver defaultContent()`
 - ▶ Example:
 - ▶ `driver.switchTo().frame(<frameElement>);`
 - ▶ If the searched frame is not found, it will throw *NoSuchFrameException*.
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Window Handling

- ▶ Here window is nothing but browser not windows explorer.
- ▶ Windows handling is required when we have multiple windows.
- ▶ To get windows handle:
 - ▶ `String` `getWindowHandle()`
 - ▶ `Set<String>` `getWindowHandles()`
- ▶ To switch to a particular window:
 - ▶ `WebDriver` `window(String nameOrHandle)`
- ▶ Example:
 - ▶ `driver.switchTo().window(String nameOrHandle)`



Alert

- ▶ Alert is a message box which displays some kind of information or ask for permission to perform certain kind of operation.
- ▶ To switch to an alert:
 - ▶ Alert `alert()`
- ▶ Operations on Alert:
 - ▶ void `accept()`
 - ▶ void `dismiss()`
 - ▶ String `getText()`
 - ▶ void `sendKeys(String keysToSend)`

