



IIT ROORKEE



NPTEL ONLINE  
CERTIFICATION COURSE

# INTRODUCTION TO INTERACTION DESIGN

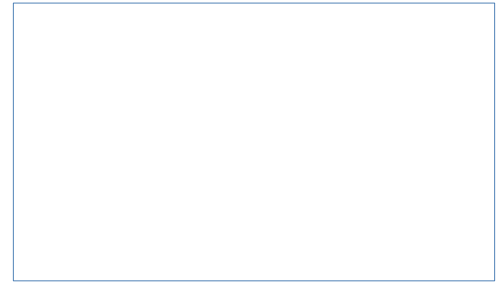
## Lecture 18

### Elements of User Interface

Prof. Sonal Atreya  
DEPARTMENT OF DESIGN

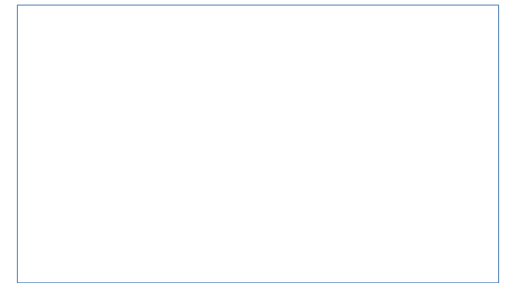


# Elements of User Interface



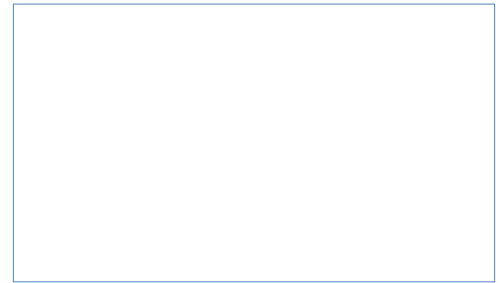
The image shows the Google homepage with several elements highlighted by red boxes:

- The search bar and the search icon to its left.
- The "Google Search" and "I'm Feeling Lucky" buttons.
- The text "Google offered in" followed by a list of languages: हिन्दी, বাংলা, తెలుగు, मराठी, தமிழ், ગુજરાતી, ಕನ್ನಡ, മലയാളം, ਪੰਜਾਬੀ.
- The top navigation bar containing "Gmail", "Images", a grid icon, and a profile icon "N".
- The application grid containing icons for Account, Gmail, Drive, Classroom, Docs, Sheets, Slides, Calendar, Chat, Meet, Forms, and Currents.
- The footer containing "How Search works", "Privacy", "Terms", and "Settings".

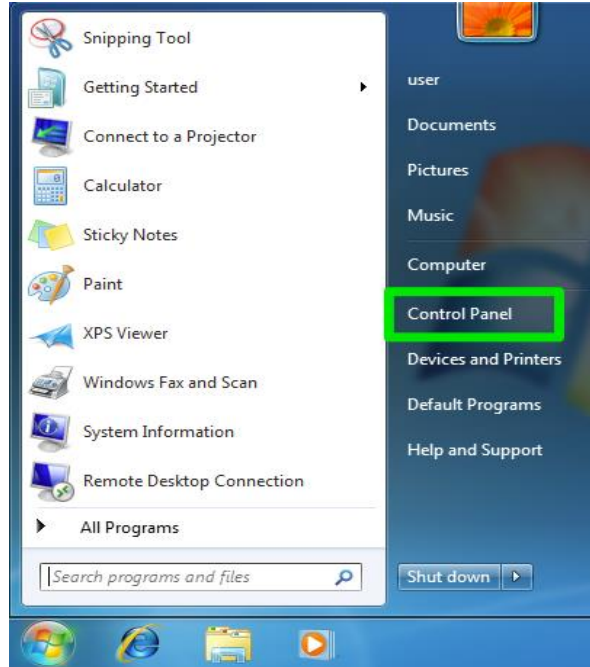
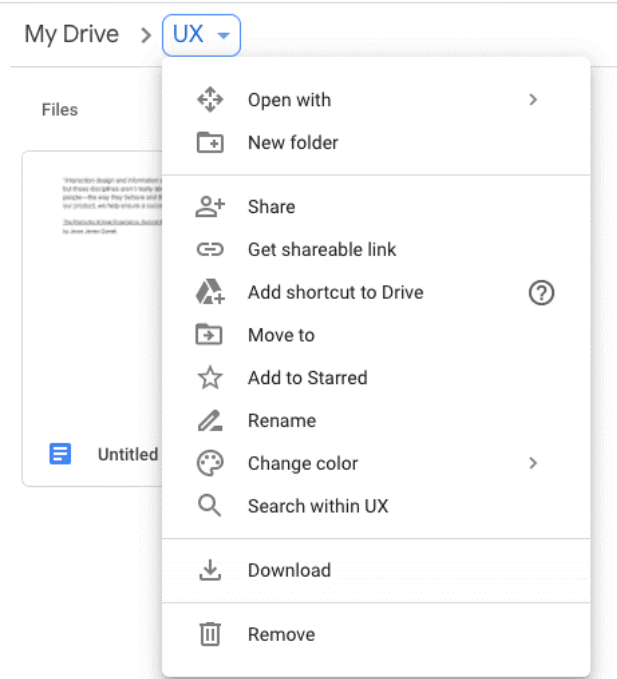


# Components of User Interfaces

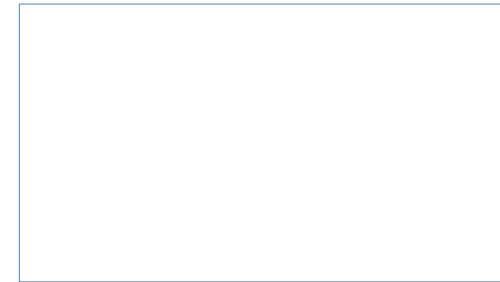
- Button
  - Menus
  - Icons
  - Progress Indicators
  - Accordions
  - Navigation Bars
  - Tabs
  - Radio Buttons
  - Check Boxes
  - Modals
  - Text Fields
  - Date Pickers
- and more

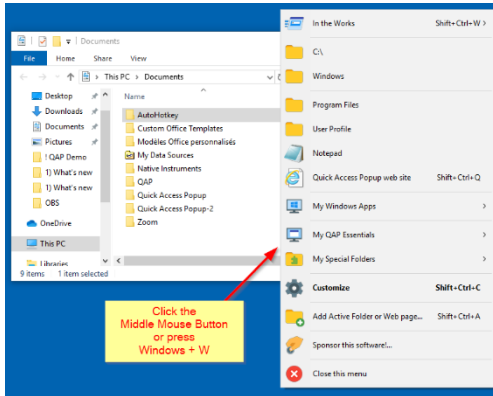


# Menu

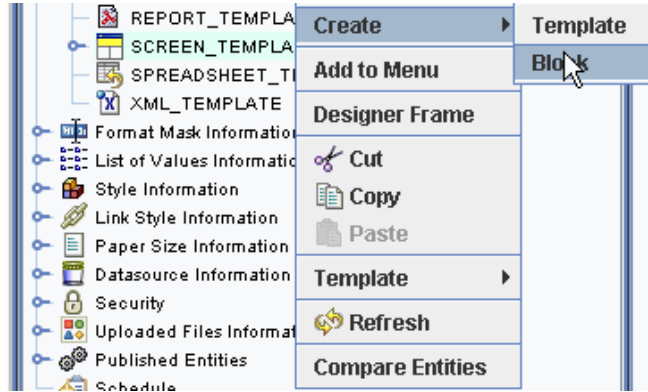


Source: Google images





POP-UP MENU



CASCADING MENU

Source: Google images

## Few different types of menus:

Pop-up menu

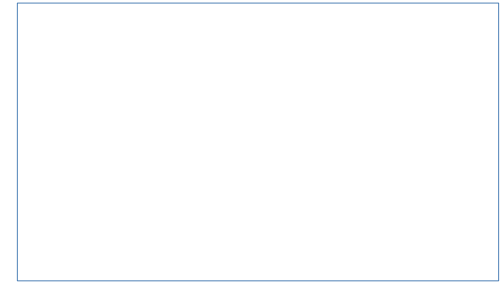
Graphical drop-down menu

Cascading menu

Pull-down menu

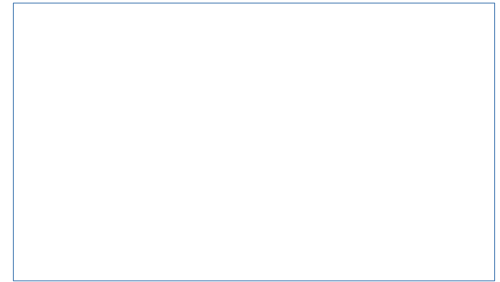
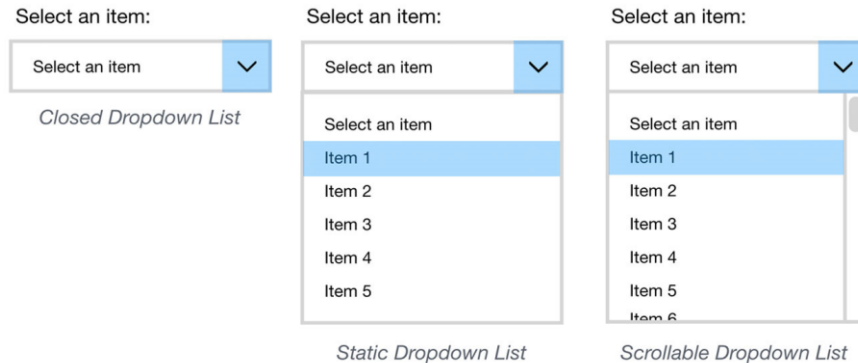
Moving bar menu

Tear-off menu



# DROP- DOWN LISTS

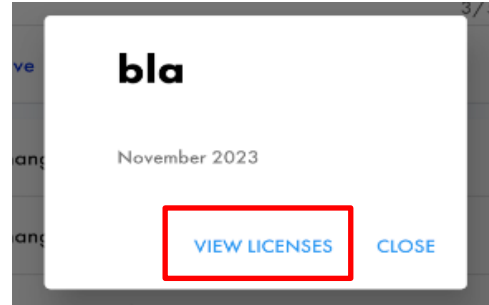
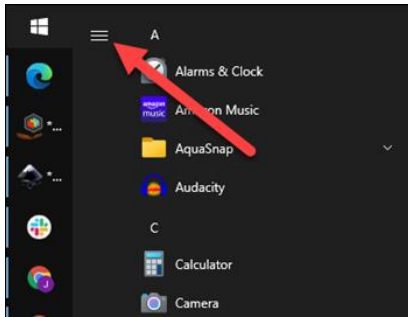
- In their simplest form, dropdown lists contain four main parts: a **container box**, a **downward-facing arrow button**, a **list of items**, and a **label**.
- Users can click on the down-arrow to display a list of mutually-exclusive items from which they can select only one.
- With dropdown lists, the selected option or default value remains visible in the container box, while the other list items appear only after clicking on the down-arrow.



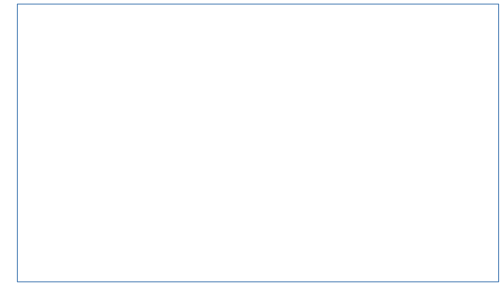
Source: Google images

# BUTTONS

- A button is an interactive element that enables to get the expected interactive feedback from the system following a particular command.
- Basically, a button is a control that allows a user to directly communicate with the digital product and send the necessary commands to achieve a particular goal.

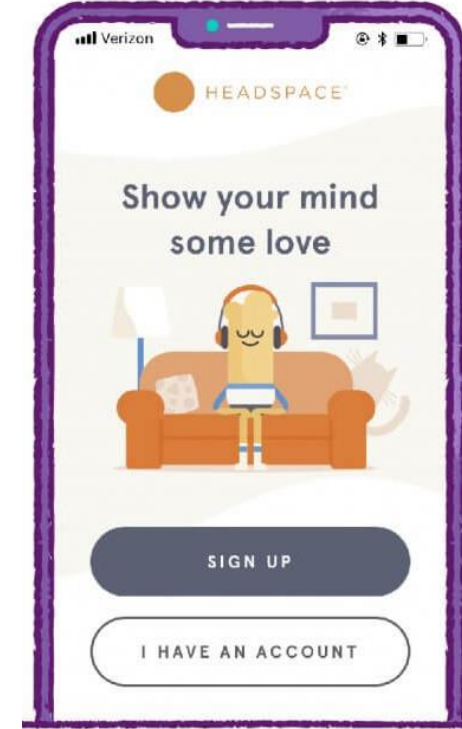


Source: Google images, Freepik





## 1. Make Sure it Stays Top of Mind

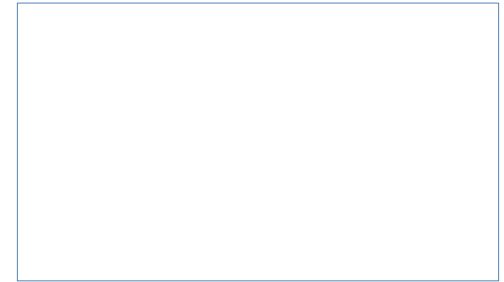


## 3. Showcase Opportunities



A call-to-action (CTA)

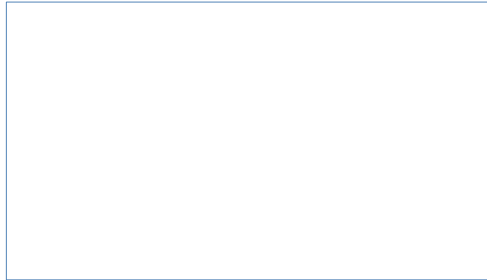
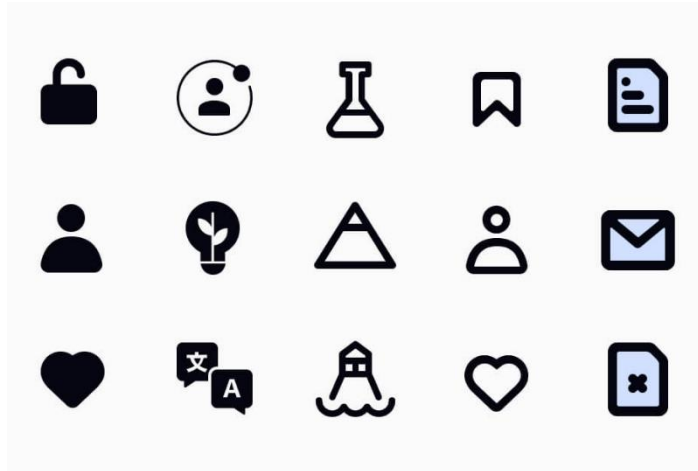
## 2. Emphasize the Primary Conversion



# Icons

Small graphical representation of a program, feature, or file.

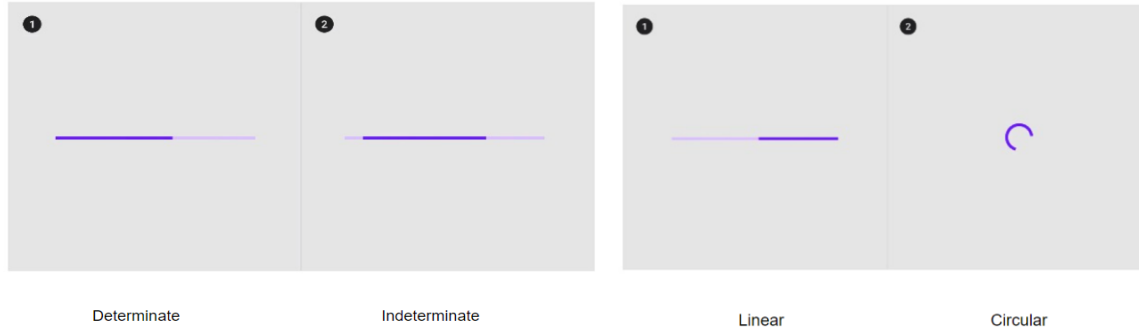
An icon can resonate with a real-life object like a lock to denote that it will unlock and lock the particular feature of an application



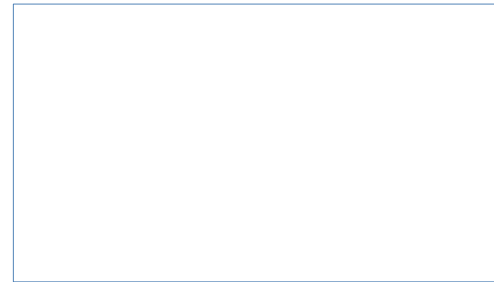
# PROGRESS INDICATORS AND METERS

A progress indicator is a way of informing the user of the system status and provide immediate feedback.

Meters are visual representations of a quantity or an achievement. Their progress is determined by user actions, rather than system actions.



Source: Google images, Freepik

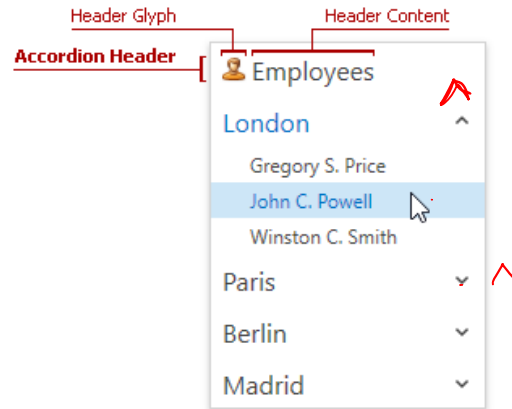


# ACCORDION

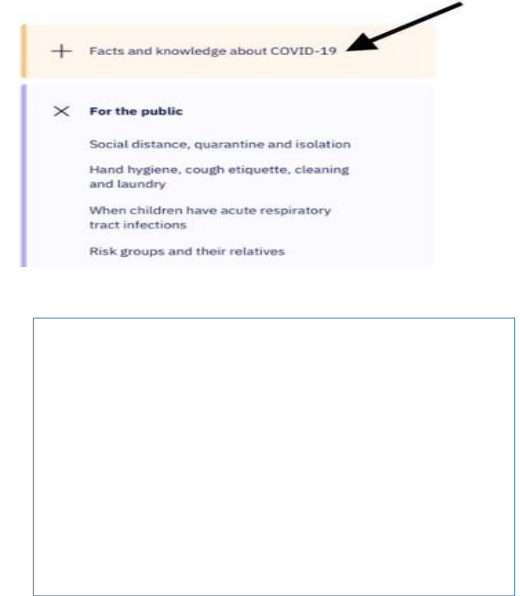
An accordion is a menu composed of vertically stacked headers that reveal more details when triggered (often by a mouse click).

## ACCORDION UI

**Headers:** They contain section titles. These are meant to be brief but descriptive enough to indicate what the reader can expect to learn more about by clicking.



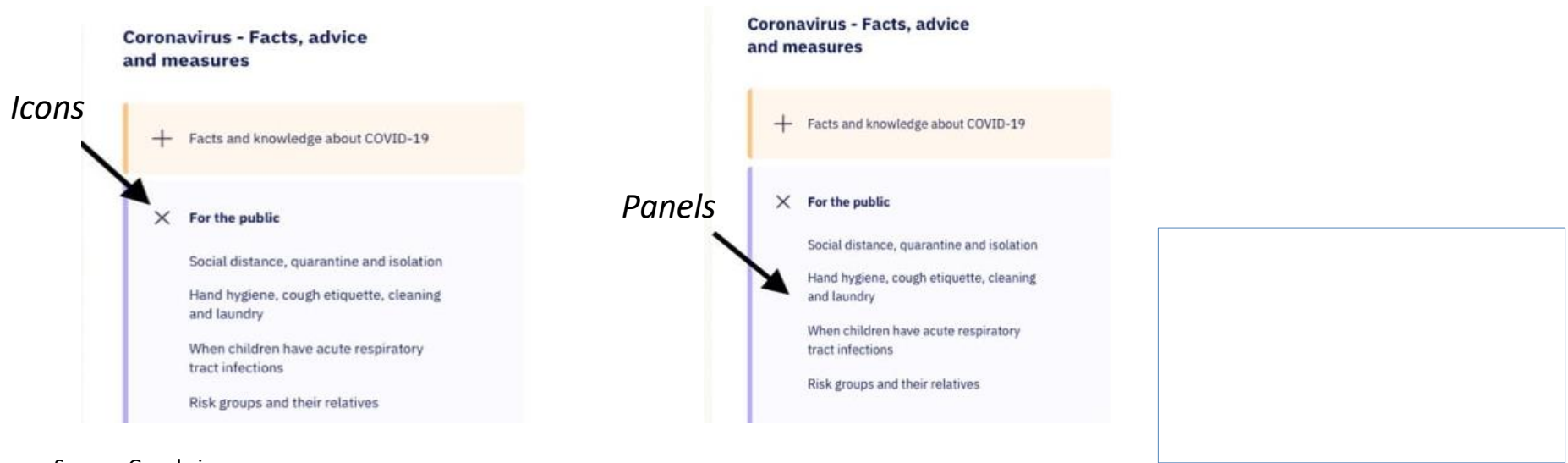
### Coronavirus - Facts, advice and measures



Source: Google images

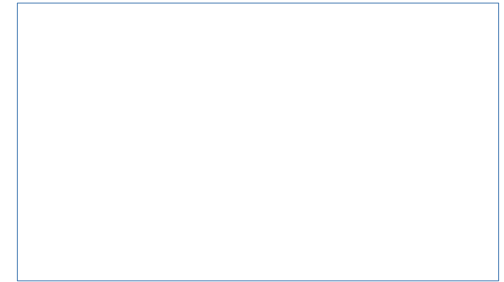
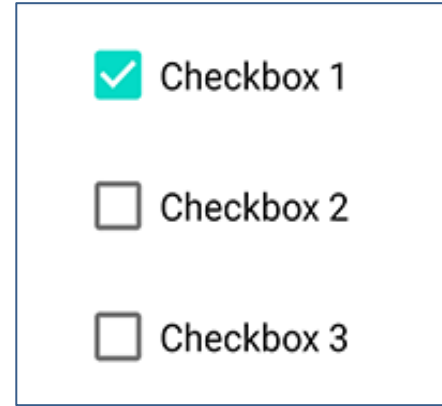
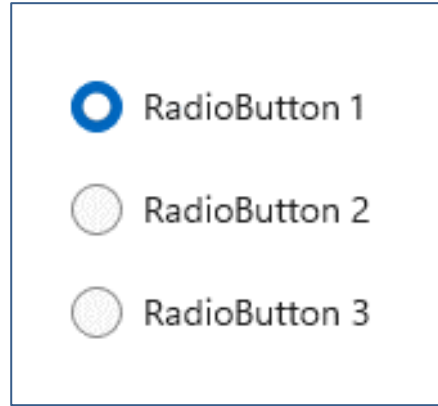
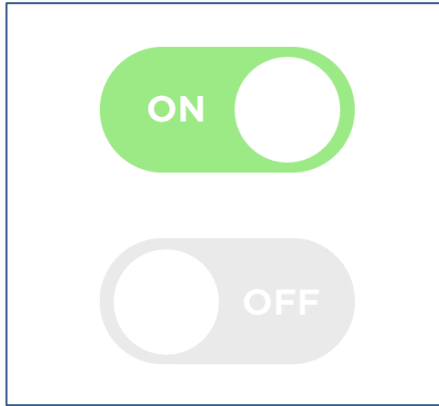
**Panels:** Panels are sections of content associated with each header. By default, panels are typically hidden and revealed when a user clicks on a header or icon in the menu.

**Icons :** Icons, which typically appear to the left or right of the section titles, indicate there's more content available if clicked.



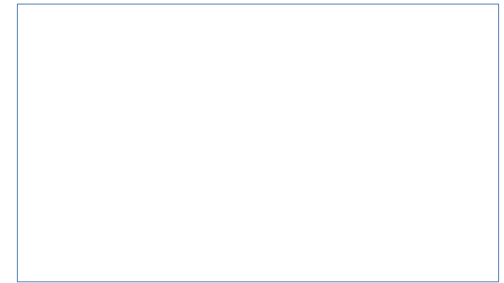
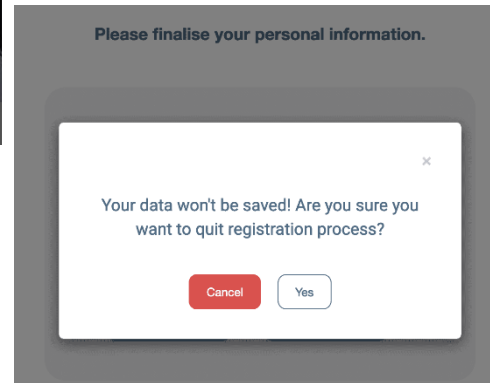
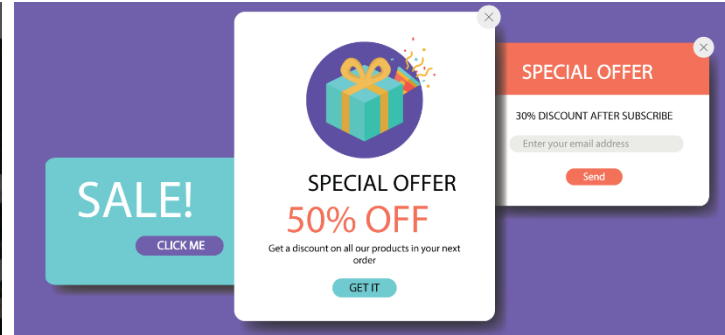
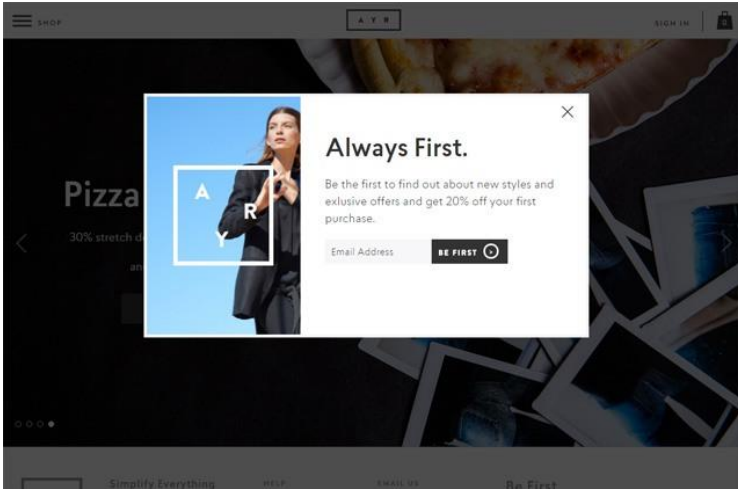
Source: Google images

# Switches, Radio Buttons & Checkboxes



Source: Google images

# Modal windows



Source: Google images

# Text Fields

Inactive

Label

Helper text

Focused

Label

Placeholder text

Helper text

Activated

Label

Input text

Helper text

Hover

Input text

Helper text

Error

Label

Input text

Error message

Disabled

Input text

Helper text

Email address

user@adobe.com

Password

.....

Job title (optional)

Designer, lawyer, etc.

Empty text field

Source: Google images



# Date Pickers

Departure ▾ Return ▾ Travellers

📅 28 May 23 - Book round trip for great savings

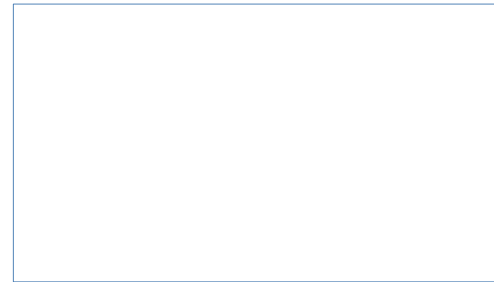
May 2023							June 2023						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1 ₹ 9,734	2 ₹ 9,698	3 ₹ 9,734
7	8	9	10	11	12	13	4 ₹ 8,984	5 ₹ 7,953	6 ₹ 6,691	7 ₹ 5,986	8 ₹ 5,986	9 ₹ 5,986	10 ₹ 7,626
14	15	16	17	18	19	20	11 ₹ 5,986	12 ₹ 5,986	13 ₹ 5,236	14 ₹ 5,236	15 ₹ 5,236	16 ₹ 5,986	17 ₹ 5,236
21	22	23	24	25	26	27 ₹ 24,508	18 ₹ 6,006	19 ₹ 5,236	20 ₹ 5,236	21 ₹ 5,236	22 ₹ 5,236	23 ₹ 6,006	24 ₹ 5,236
28 ₹ 19,205	29 ₹ 14,141	30 ₹ 13,328	31 ₹ 11,130				25 ₹ 5,236	26 ₹ 5,235	27 ₹ 5,235	28 ₹ 5,235	29 ₹ 5,235	30 ₹ 5,235	

10/26/2016 📅

October 2016

Su	Mo	Tu	We	Th	Fr	Sa
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Today



Source: Google images

# Thank You

