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CS 188 HW2

Part c)
Figure 1 :

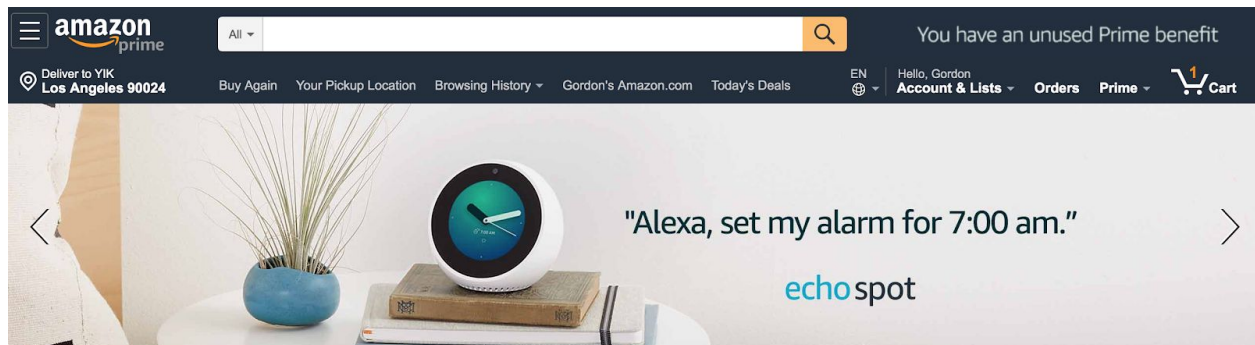


Figure 2 :

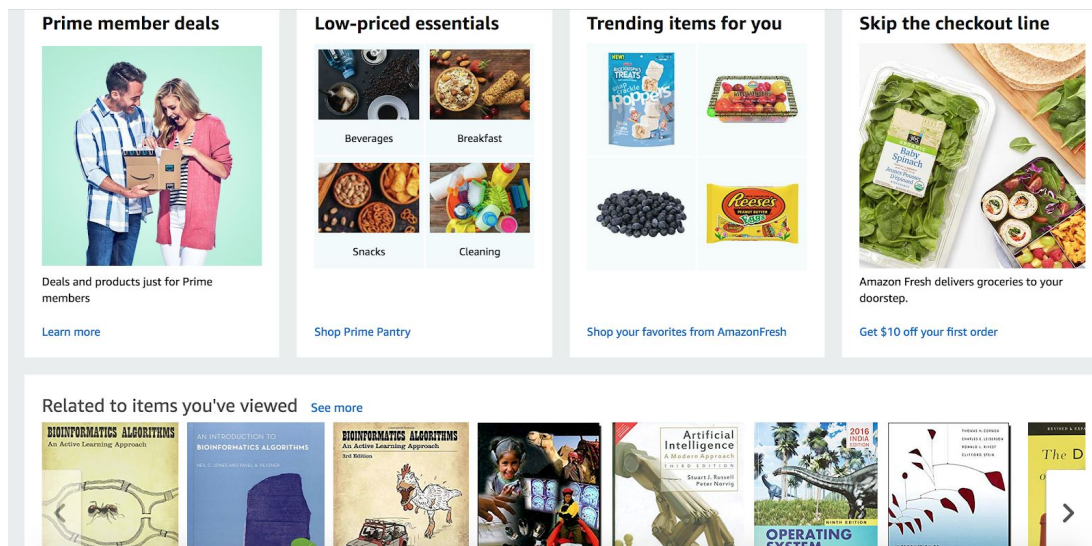
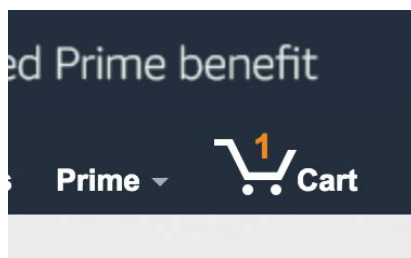


Figure 3 :



The Amazon shopping website clearly fulfills different aspects of the Gestalt Laws.

In respect to figure 1, the dark color navigation bar demonstrates the application of the proximity in user interface design. Users tend to associate closer subjects as being one item. Key tabs such as “Orders”, “Cart”, “Buy Again”, “Your Pickup Location”, “Browsing history”, “Today’s Deals” are the frequently search items or questions once the user log into the webpage.

Therefore, the placement of those neighboring search tab helps redirecting the users to the correct search place more efficiently. In respect to figure 2, the website uses the principle of similarity to separate the contents of page. The webpage utilizes the white rectangular content boxes to group the item images into several categories such as “Prime member deals”, “Low-priced essentials”, “Skip the checkout line”, “Related to items you’ve viewed”. Since users often view similar looking objects together, the same size of the rectangular content boxes create a sense of uniformity and allows them to stand out as a group from the background of the webpage. In respect to figure 3, the little shopping cart image that locates at the top left of the page demonstrates the usage of closure. Users are able to recognize the combination of the simple drawing and the number represent the total number of purchase items in the user’s shopping cart at the webpage.

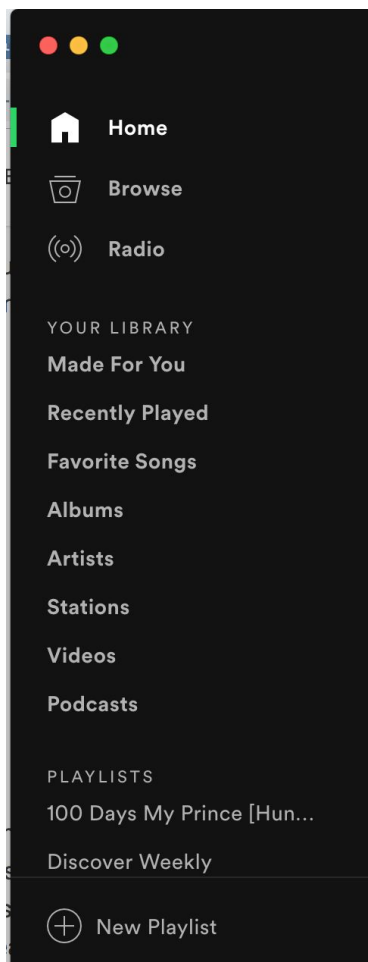


Figure 4 :

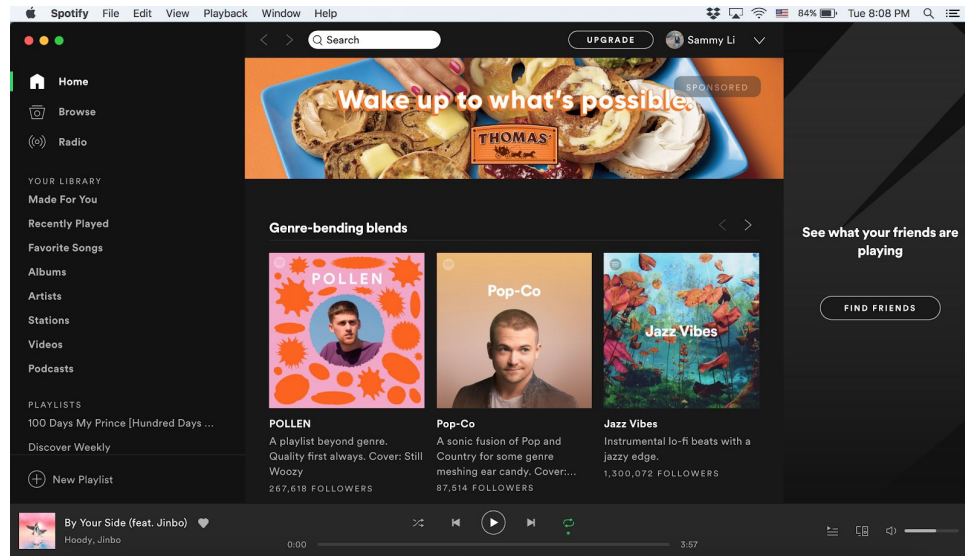


Figure 5 :

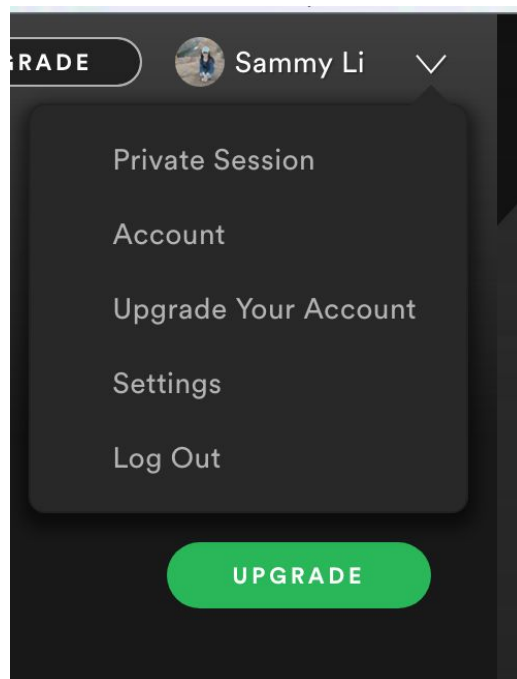


Figure 6 :

The Spotify music player demonstrates the usage of Fitts' Law in different areas of the user interface design. In respect to figure 4, the control buttons that locate on the left panel of the page are large enough in size that allow the users to able to easily click with the corresponding pointing device. Since the buttons have a larger surface area, users are not required to have a certain level of precision when it comes to select functions among the options. In respect to figure 5, the left search panel and the bottom media control buttons restrict the user moving area within the page. Since users would not be able to reach any further from the edge of the panel, they would focus their movement and attention at the center of the page. Therefore, it enables the users to move with a greatest speed whenever a movement is needed in order to change the functions of the music player. In respect to figure 6, the page also offers a short drop down list feature for personal setting of the app. Since the app only offers a few options within the list, the

short travelling distance allows the users to able to move to the destined button in a reduced travel time.

Figure 7 :



Figure 8 :

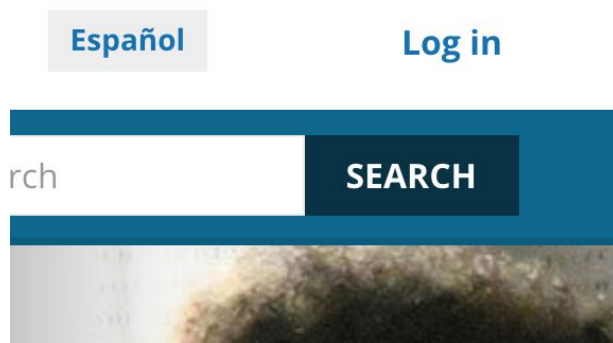
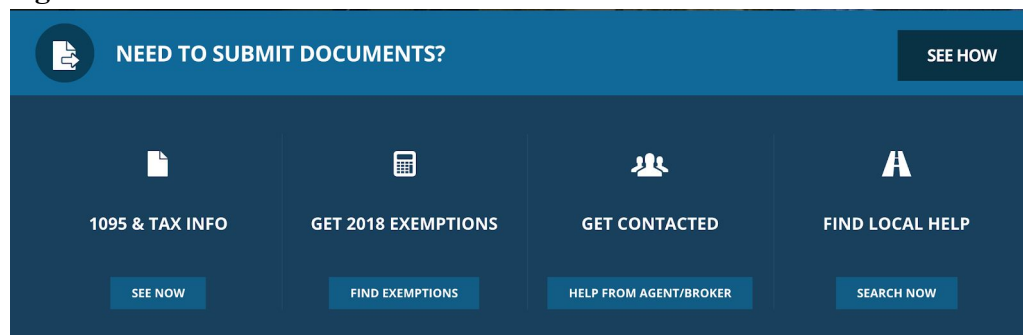


Figure 9 :



The government healthcare website shows different aspect of usage for principle of graphical coding. In respect to figure 7, the design of the two green buttons that locate in the center clearly deliver a message that demonstrates both of them are clickable. Therefore, users would be able to

interact with those buttons. At the same time, the label of the buttons help answering the two commonly asked questions from people who have missed the open enrollment for health insurance. In respect to figure 8, the healthcare website also supports another language translation for displaying important informations. This user-friendly feature allows the Spanish speakers who are not familiar with English to be able to utilize the website easily and efficiently. In respect to Figure 9, the website support a group of easy to understand icones which help describe the functions of the website. Since icones are designed based on related hints from real life, users are able to understand easily, such as the paper icon represents tax information, the calculator icon represents the exemptions information, the people icon represents the contact information.

Part d)

Name of the task	The total number of keystrokes the task need	Does the task require visual confirmation or can do it all with audio and tactile feedback?
Calling someone who is already saved in the contact list of the phone	<ol style="list-style-type: none"> 1. Press the unlock button on the right side of the phone 2. Swipe the screen to unlock the phone 3. Tab on the phone call icon 4. Click on the contacts tab 5. Scroll and look for the person's name that I want to contact 6. Tab on the name and the corresponding call button 7. Quit the app by pressing the center button of the phone 	The task requires visual confirmation and could not be done simultaneously when I need to keep my eyes on the road.
Texting someone from the facebook messenger	<ol style="list-style-type: none"> 1. Press the unlock button on the right side of the phone 2. Swipe the screen to unlock the phone 3. Tab on the Apps icon 4. Click on the Messenger icon 	The task requires visual confirmation and could not be done simultaneously when I need to keep my eyes on the road.

	<ol style="list-style-type: none"> 5. Scroll and look for the person's name that I want to contact 6. Tab on the corresponding name and typing the text in the message dialogue box 7. Quit the app by pressing the center button of the phone 	
Checking emails from the google gmail app	<ol style="list-style-type: none"> 1. Press the unlock button on the right side of the phone 2. Swipe the screen to unlock the phone 3. Tab on the Apps icon 4. Click on the google icon 5. Tab on the gmail icon 6. Click on the latest unread email notifications 7. Quit the app by pressing the center button of the phone 	The task requires visual confirmation and could not be done simultaneously when I need to keep my eyes on the road.
Confirming the authorization of the UCLA account login	<ol style="list-style-type: none"> 1. Press the unlock button on the right side of the phone 2. Swipe the screen to unlock the phone 3. Swipe the screen once to move to the second background app page 4. Click on the Duo Mobile icon 5. Tab on the green authorization box to confirm the log in 6. Quit the app by pressing the center button of the phone 	The task requires visual confirmation and could not be done simultaneously when I need to keep my eyes on the road.

Checking the account balance through the online banking mobile app	<ol style="list-style-type: none"> 1. Press the unlock button on the right side of the phone 2. Swipe the screen to unlock the phone 3. Swipe the screen once to move to the second background app page 4. Click on the banking app icon 5. Input the online ID and password 6. Click the sign in button 7. Tab on the balance icon to check the total amount 8. Quit the app by pressing the center button of the phone 	The task requires visual confirmation and could not be done simultaneously when I need to keep my eyes on the road.
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CS 188 HW 2 Part e)

I have recorded two items in my HCI notebook. I do not use the notebook that often.

CS 188 HW 2 Part f)

Project group member : Sum Yi Li & Jennifer Lin (Section A discussion)