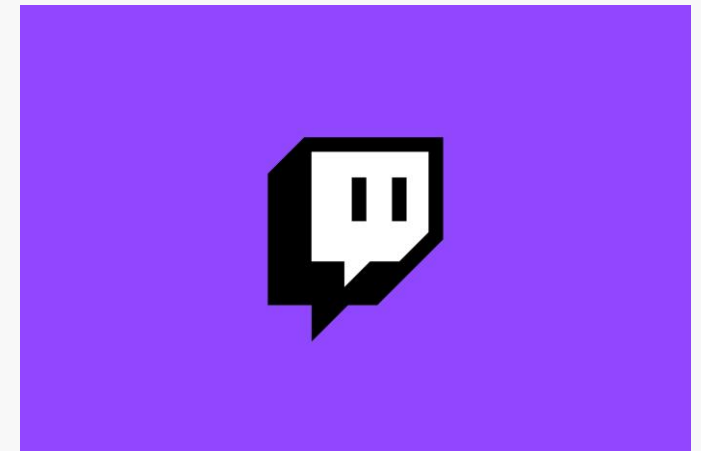
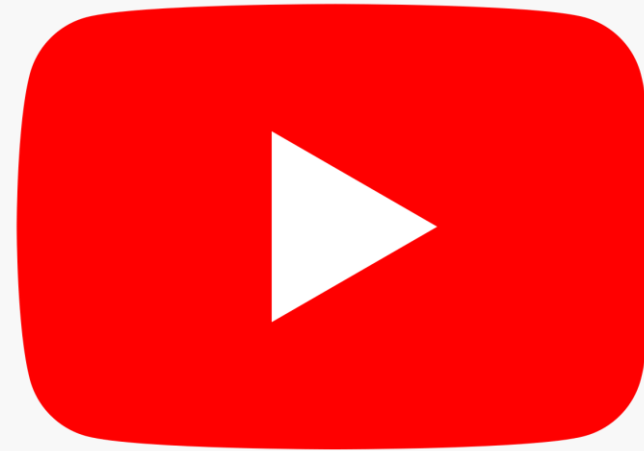


STUDY ON ACCESSIBILITY AND USABILITY

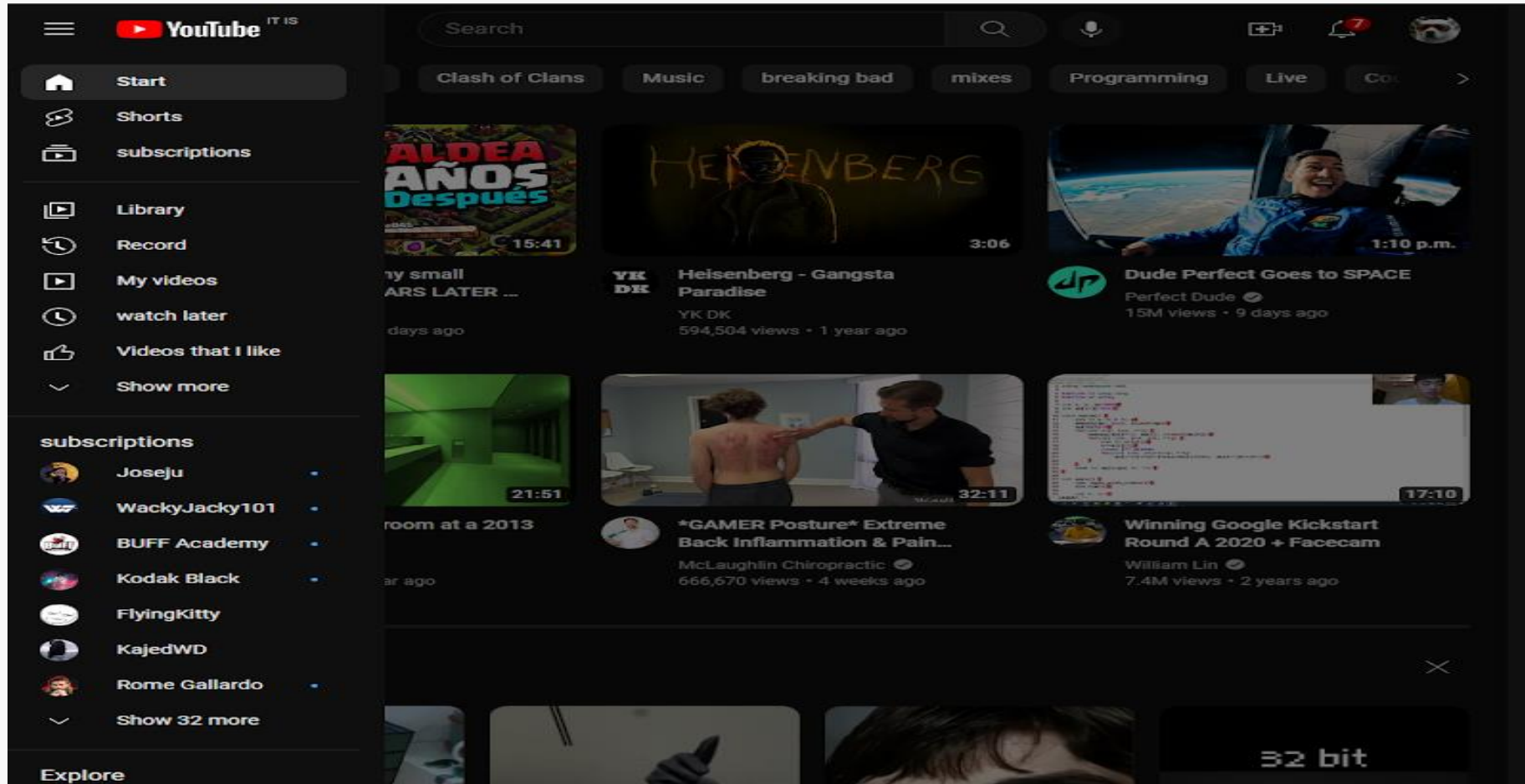
Aris Vazdekis Soria
Alejandra Ruiz de Adana Fleitas

INDEX

- Strive for consistency
- Enable frequent users to use shortcuts
- Offer informative feedback
- Design dialogs to yield closure
- Offer simple error handling
- Permit easy reversal of actions
- Support internal locus of control
- Reduce short term memory load
- Analysis
- The System Usability Scale Test
- Kiviatic diagram



Strive for consistency



Strive for consistency

The screenshot shows the Twitch website interface. At the top, there's a navigation bar with the Twitch logo, 'Explore', a search bar, and links for 'Log in' and 'Check in'. Below the navigation bar, the main content area is divided into three sections. On the left, there's a 'RECOMMENDED CHANNELS' list with channel avatars, names, and viewer counts. In the center, a large video player shows a live stream of a Call of Duty match. On the right, a profile card for 'FlexZ' is displayed, showing a profile picture, name, channel name, viewer count, and a bio. Below the main video player, there's a section titled 'Live channels that might interest you' with a row of smaller video thumbnails. At the bottom, a purple banner contains the text 'Join the Twitch community! Discover the best live streams wherever you are.' and a 'Check in' button.

Explore

Search

Log in Check in

RECOMMENDED CHANNELS

- the river 57,526 League of Legen...
- elxokas 8520 God of War Ragna...
- auronplay 38,433 chatting
- ElChiringuitoTV 1182 Sports
- Werlyb 3411 League of Legends
- LVPes 10,258 League of Legen...
- Spursito 2201 chatting
- SoyMotor 3437 Sports
- cacho01 2293 FIFA 23
- livinginthestreet 1347 outdoors and travel

LIVE

FlexZ

Call of Duty: Modern...

797 viewers

Spanish

FlexZ is a former professional player of the Call of Duty saga who is now dedicated to creating content every day on his channel, taking out the best games, clips and above all helping people improve.

Live channels that might interest you

LIVE

LIVE

LIVE

Join the Twitch community! Discover the best live streams wherever you are.

Check in



Enable frequent users to use shortcuts

Keyboard shortcut	Function
Spacebar	Play/Pause when the seek bar is selected. Activate a button if a button has focus.
Play/Pause Media Key on keyboards	Play / Pause.
k	Pause/Play in player.
m	Mute/unmute the video.
Stop Media Key on keyboards	Stop.
Next Track Media Key on keyboards	Moves to the next track in a playlist.
Left/Right arrow on the seek bar	Seek backward/forward 5 seconds.
j	Seek backward 10 seconds in player.
l	Seek forward 10 seconds in player.
.	While the video is paused, skip to the next frame.
,	While the video is paused, go back to the previous frame.
>	Speed up the video playback rate.
<	Slow down the video playback rate.

Home/End on the seek bar	Seek to the beginning/last seconds of the video.
Up/Down arrow on the seek bar	Increase/Decrease volume 5%.
Numbers 1 to 9	Seek to the 10% to 90% of the video.
Number 0	Seek to the beginning of the video.
/	Go to search box.
f	Activate full screen. If full screen mode is enabled, activate F again or press escape to exit full screen mode.
c	Activate closed captions and subtitles if available. To hide captions and subtitles, activate C again.
Shift+N	Move to the next video (If you're using a playlist, will go to the next video of the playlist. If not using a playlist, it will move to the next YouTube suggested video).
Shift+P	Move to the previous video. Note that this shortcut only works when you're using a playlist.
i	Open the Miniplayer .



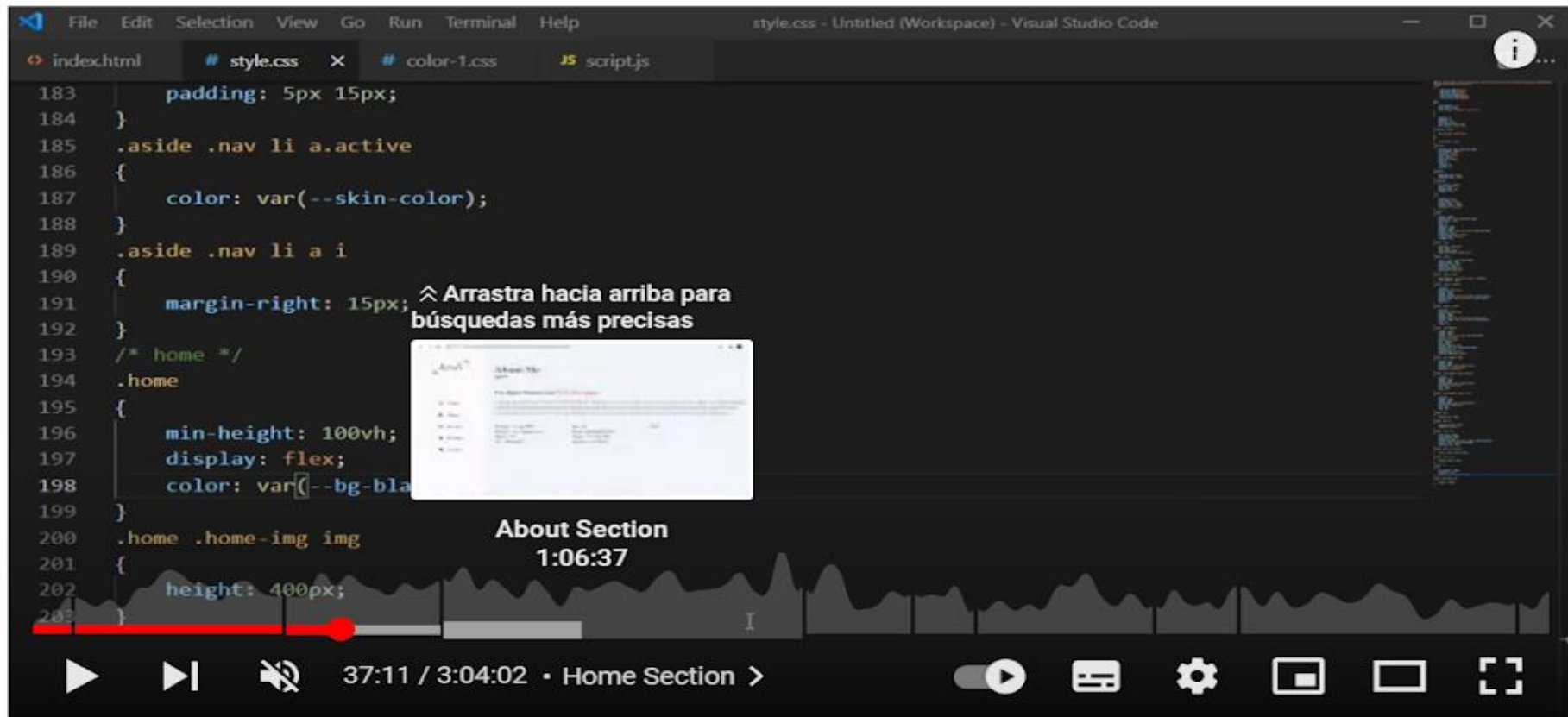
Enable frequent users to use shortcuts

Windows/Linux	macOS	Function
Clip or Video Hotkeys		
Space/K	Space/K	Pauses/plays a clip or live broadcast.
F	F	Toggles and exits the full-screen view.
Left Arrow	Left Arrow	Rewinds the broadcast by 10 seconds. Every keystroke adds 10 seconds.
Right Arrow	Right Arrow	Fast forwards the broadcast. Every keystroke adds 10 seconds.
Alt + K	Option + K	Saves a clip of the last 5 to 60 seconds of a video.
M	M	Mutes the clip or video.

Live Broadcast Hotkeys		
Space/K	Space/K	Pauses and plays the live broadcast.
M	M	Mutes the live broadcast.
Alt + X	Option + X	Saves a clip of the last 5 to 60 seconds of a live broadcast.
Alt + R	Option + R	Toggles chat side panel.
Alt + T	Option + T	Toggles and exits the theater mode.
F	F	Toggles and exits the full-screen view.
?	?	Toggles overlay with keyboard shortcuts



Offer informative feedback

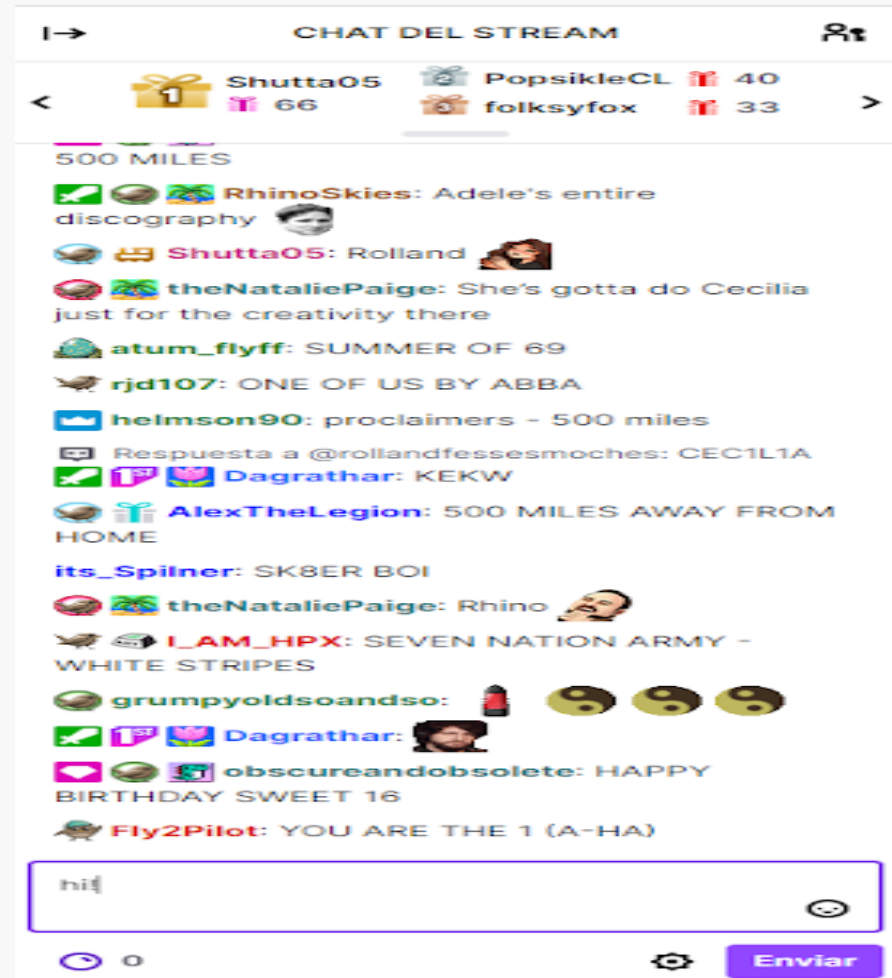


Responsive Portfolio Website Using HTML CSS & JavaScript

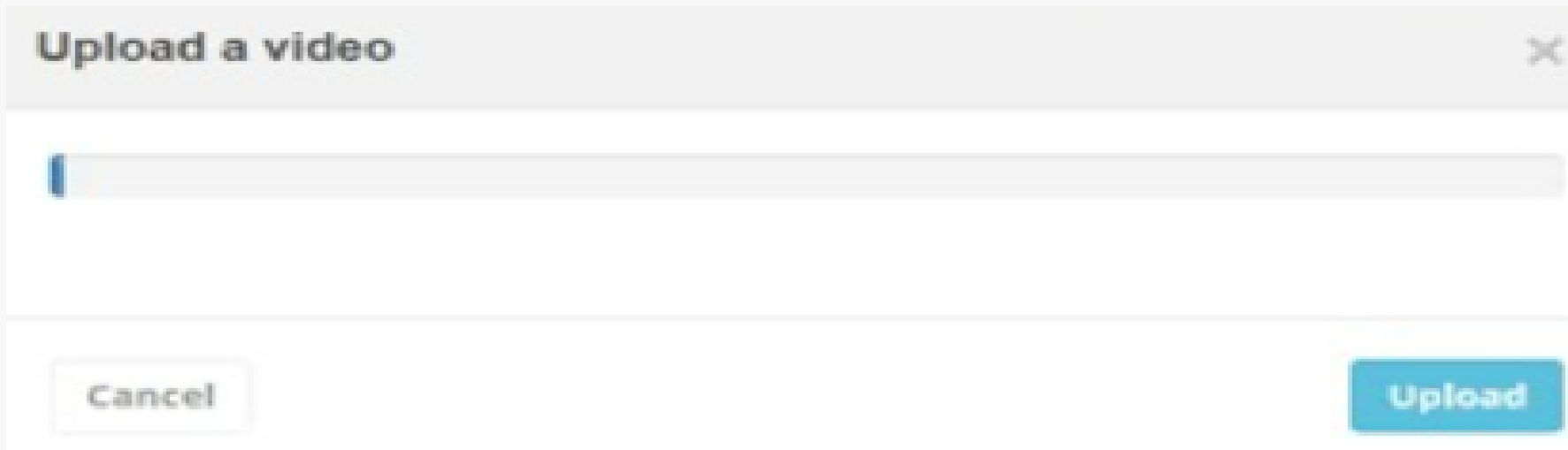
Create a Responsive Personal Portfolio Website Design using HTML CSS and JavaScript



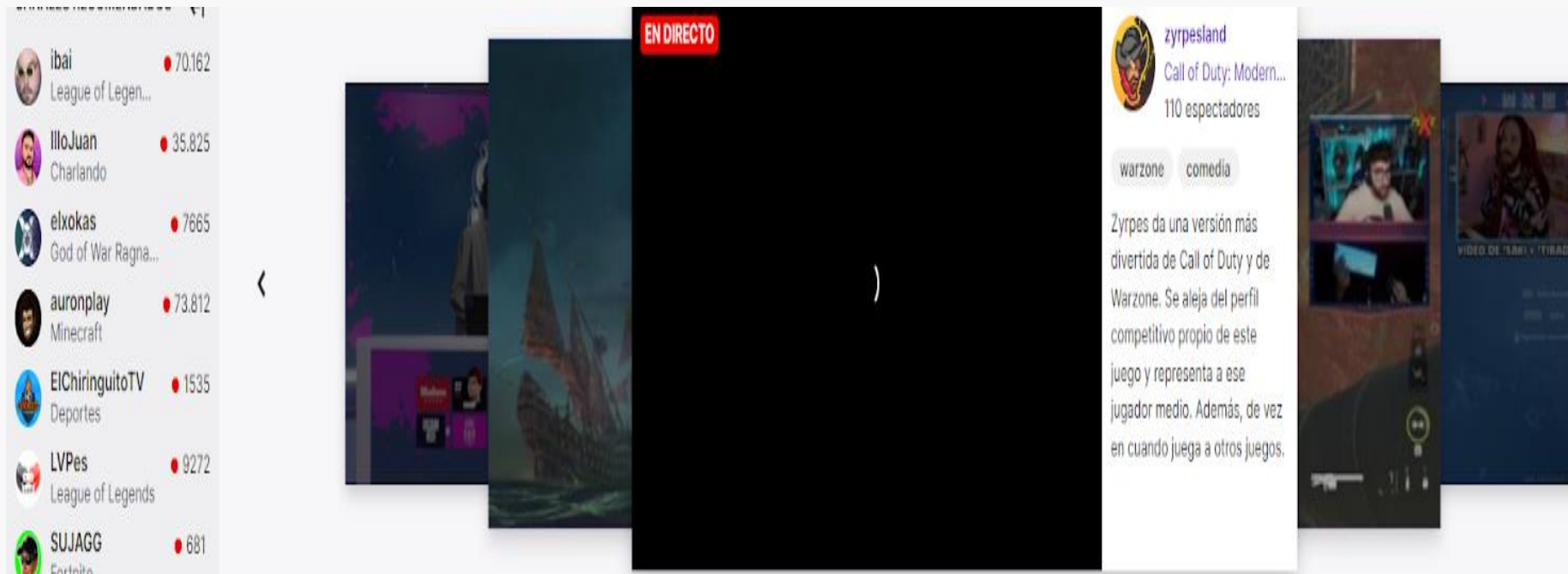
Offer informative feedback



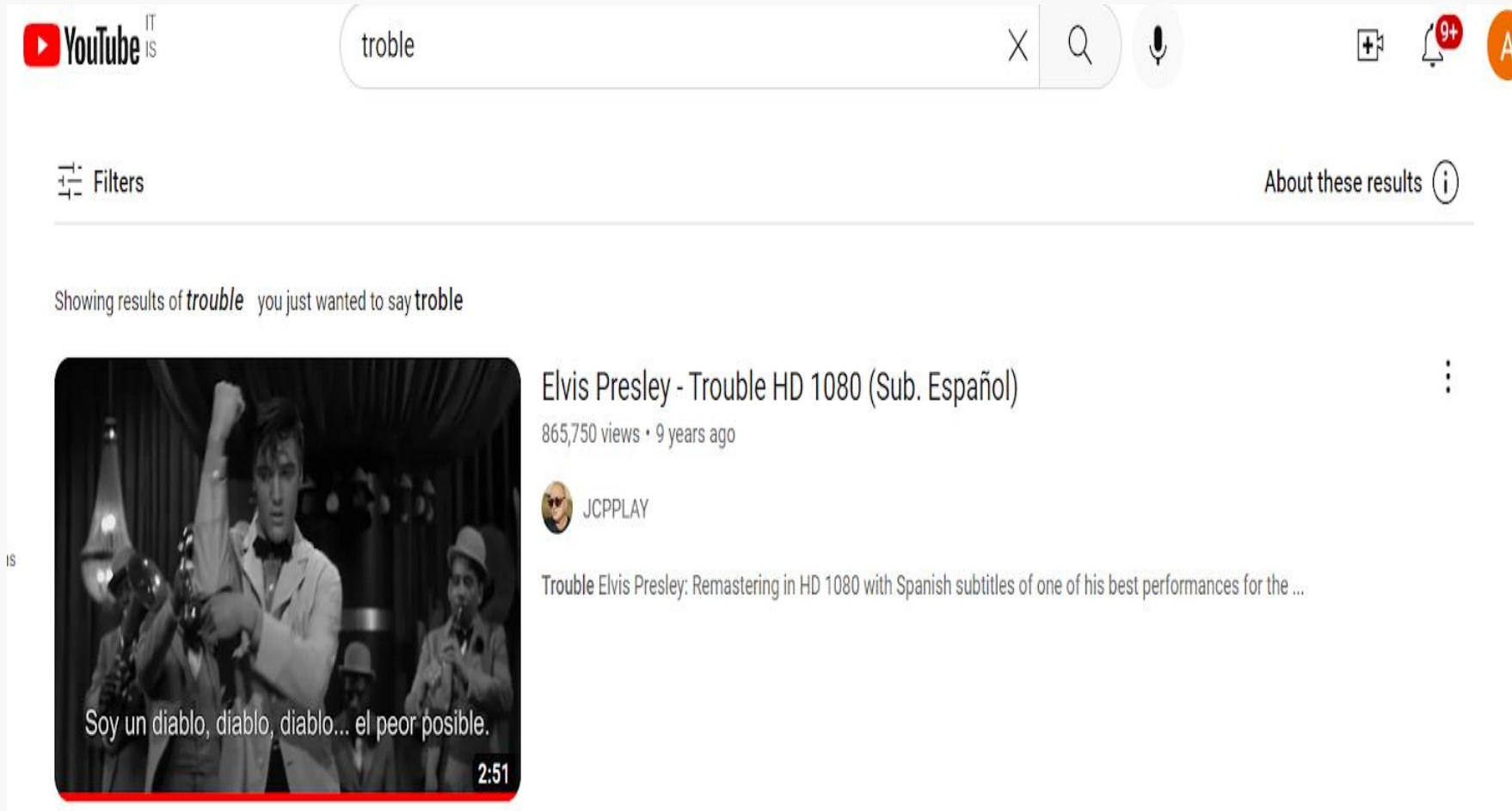
Design dialogs to yield closure



Design dialogs to yield closure




Offer simple error handling



The screenshot shows a YouTube search interface. At the top, the YouTube logo is on the left, and the search bar contains the text "trouble". To the right of the search bar are icons for a close button (X), a search icon (magnifying glass), a microphone icon, a plus icon for additional options, a notification bell with a "9+" badge, and a user profile icon with the letter "A". Below the search bar, there is a "Filters" link on the left and an "About these results" link with an information icon (i) on the right. A message states: "Showing results of **trouble** you just wanted to say **trouble**". The first search result is a video titled "Elvis Presley - Trouble HD 1080 (Sub. Español)" by the channel "JCPPLAY". The video has "865,750 views • 9 years ago". The video thumbnail shows Elvis Presley in a white suit and bow tie, performing on stage. Spanish subtitles at the bottom of the thumbnail read: "Soy un diablo, diablo, diablo... el peor posible." and the video duration "2:51" is shown in the bottom right corner of the thumbnail. A vertical ellipsis menu icon is visible to the right of the video title.



Offer simple error handling


 **Join Twitch today**

[Log in](#) [Check in](#)


Creating an account allows you to participate in chat, follow your favorite channels and stream from your own channel.

Username

Password




...



*Las contraseñas deben tener al menos 8 caracteres.

Confirm Password



Date of Birth

Day

Month

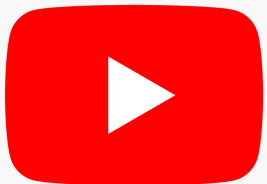
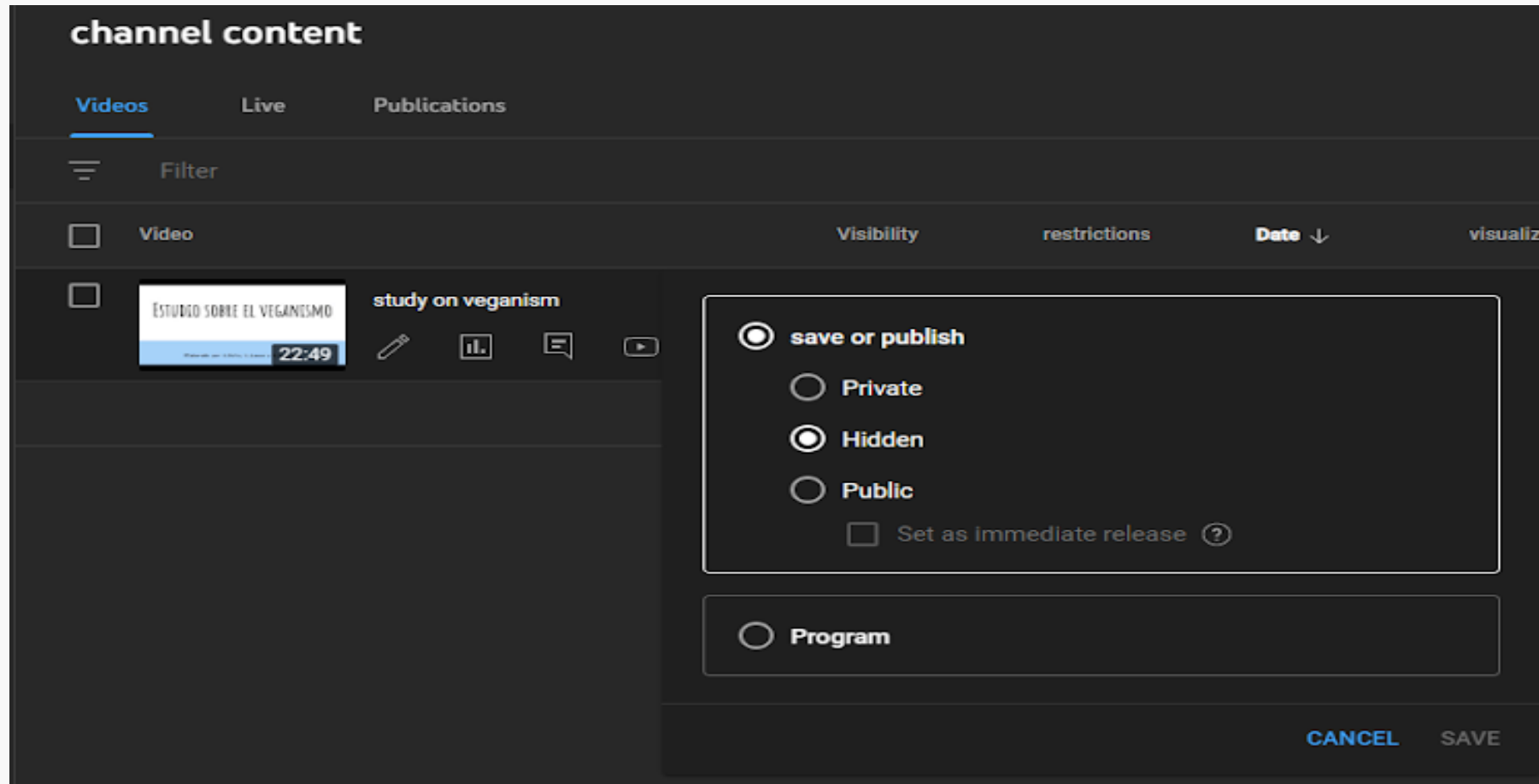
Year

Phone number (Requires verification)

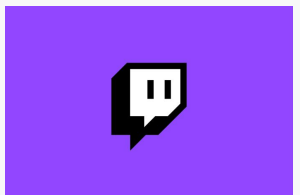
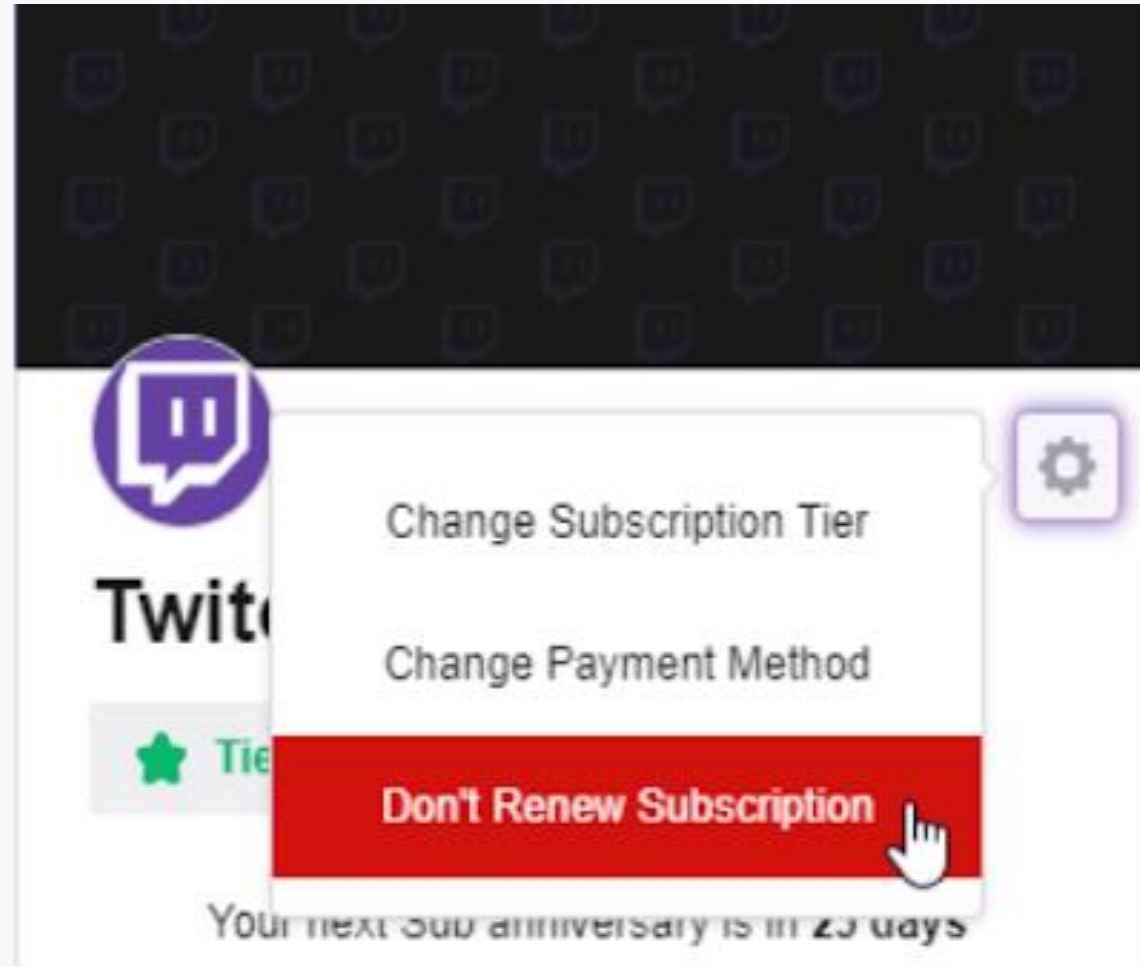
España +34



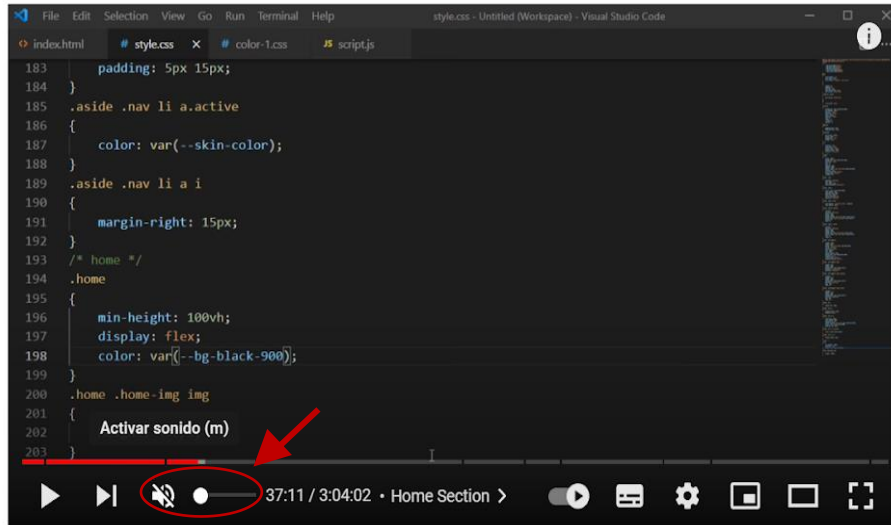
Permit easy reversal of actions



Permit easy reversal of actions

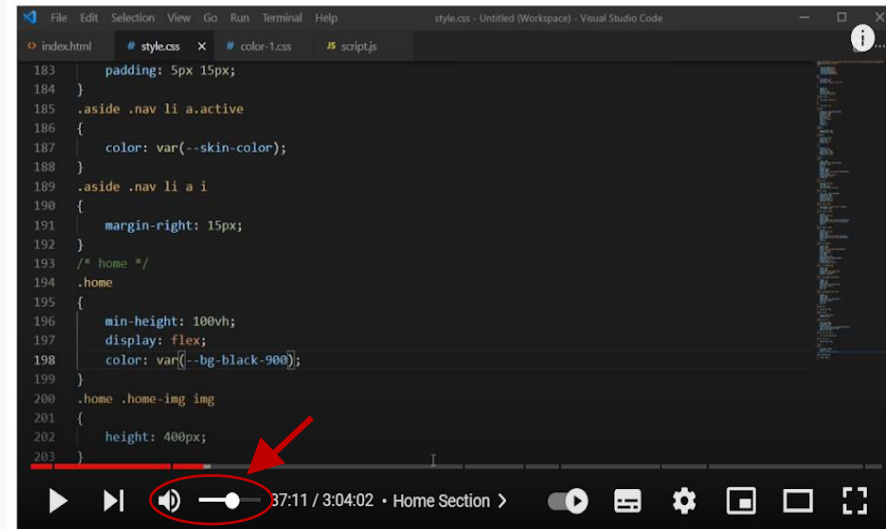


Support internal locus of control



Responsive Portfolio Website Using HTML CSS & JavaScript

Create a Responsive Personal Portfolio Website Design using HTML CSS and JavaScript

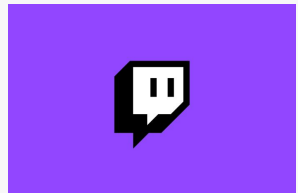
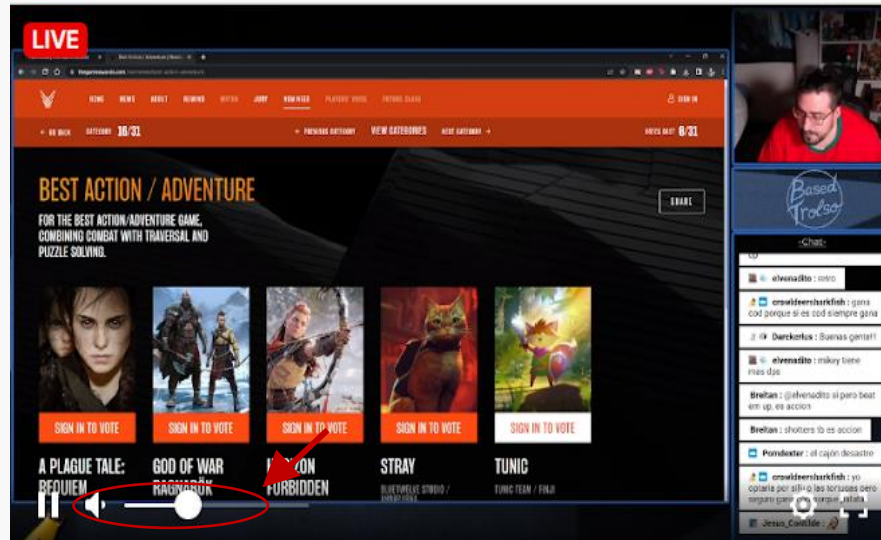


Responsive Portfolio Website Using HTML CSS & JavaScript

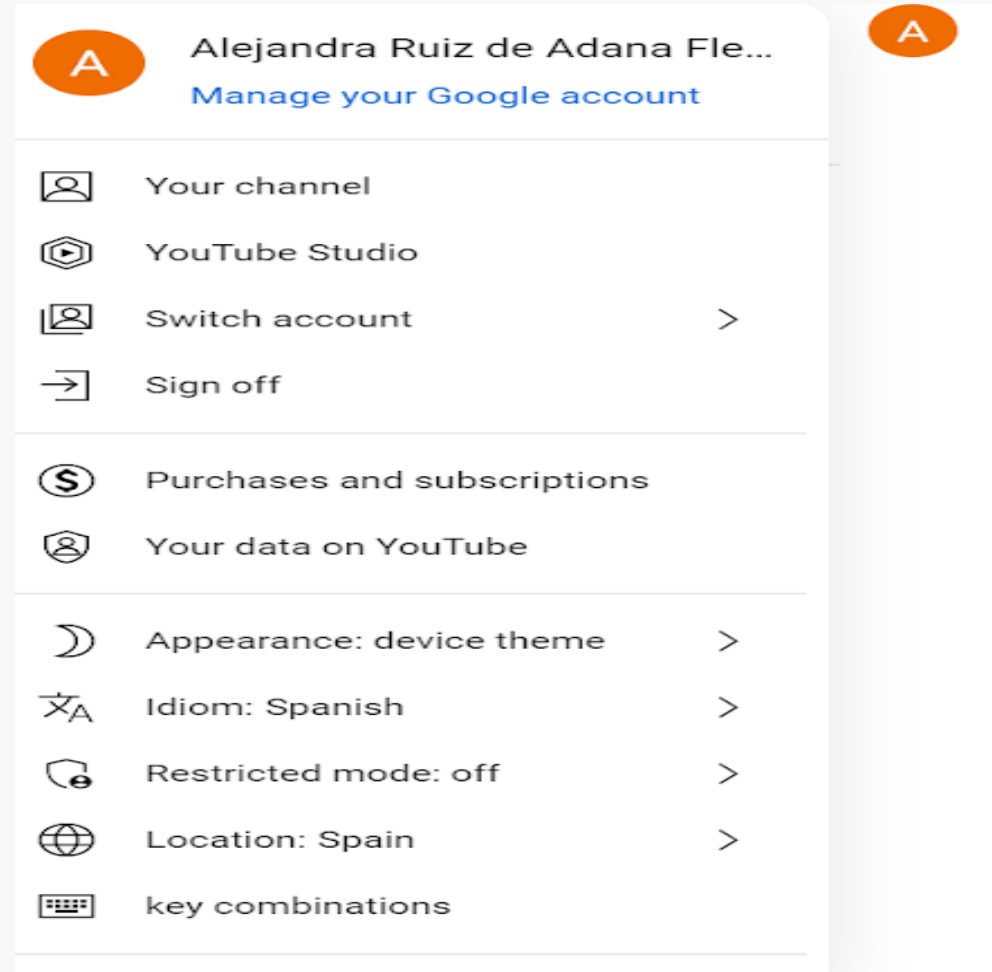
Create a Responsive Personal Portfolio Website Design using HTML CSS and JavaScript



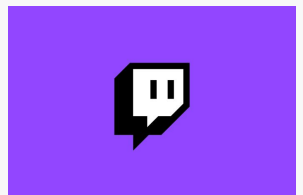
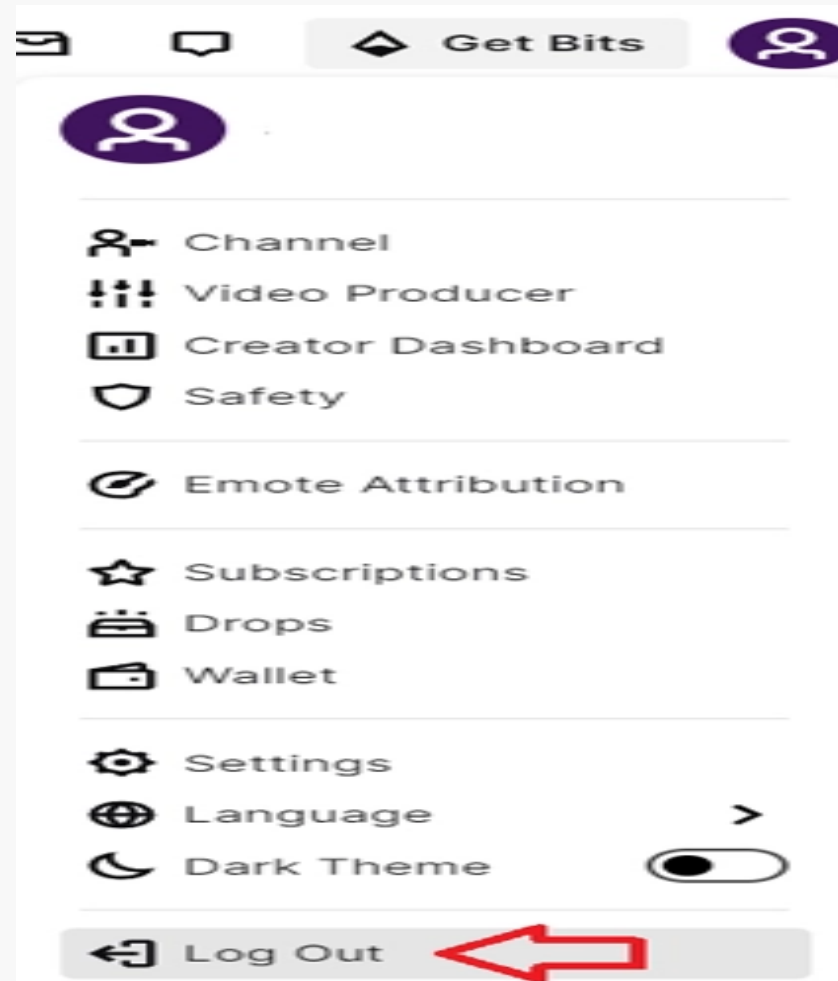
Support internal locus of control



Reduce short term memory load



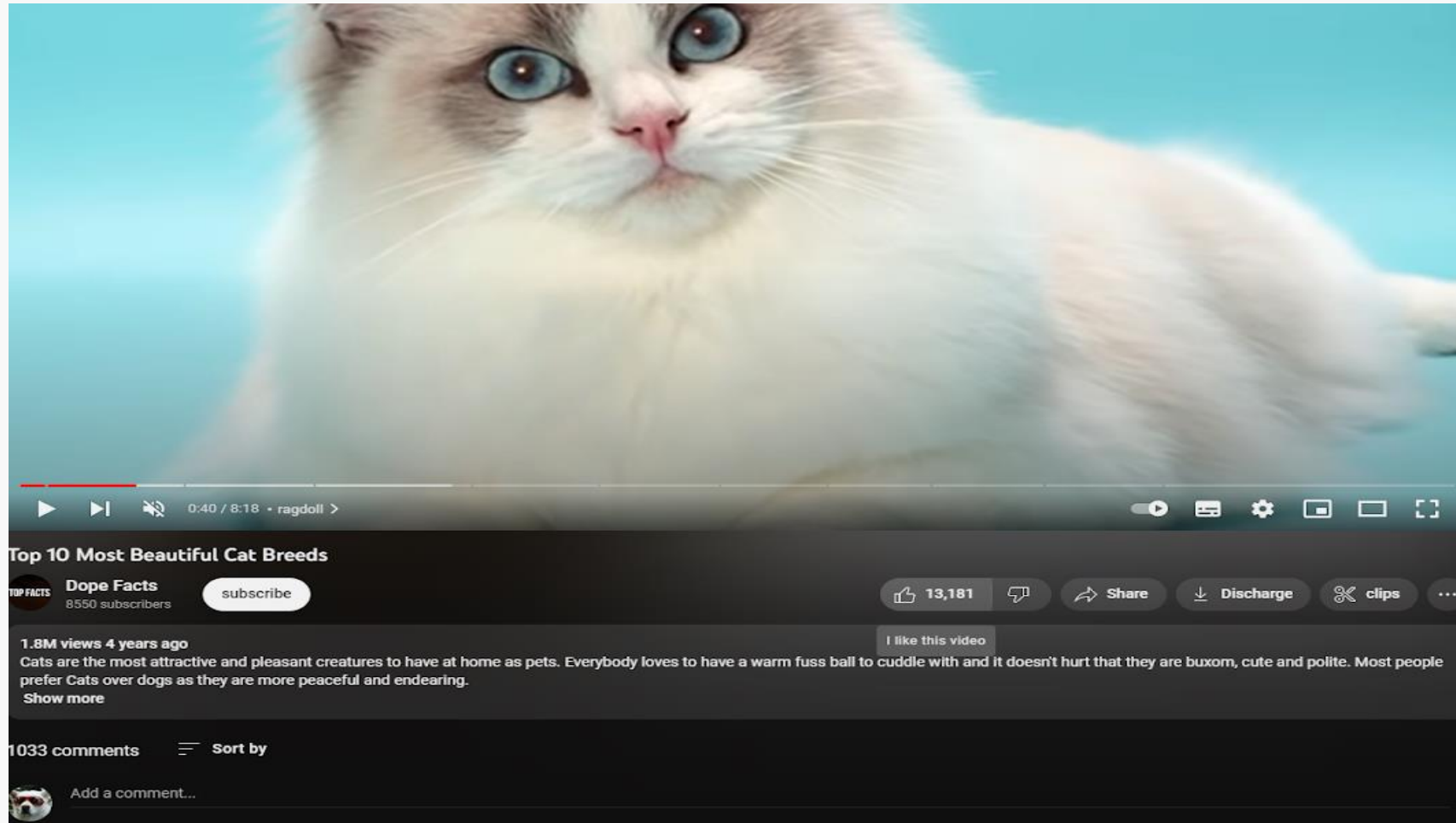
Reduce short term memory load



Analysis



Analysis



The System Usability Scale Test

The System Usability Scale Test				
Strongly disagree				Strongly agree
1	2	3	4	5

1	I think that I would like to use this system frequently.
2	I found the system unnecessarily complex.
3	I thought the system was easy to use.
4	I think that I would need the support of a technical person to be able to use this system.
5	I found the various functions in this system were well integrated.
6	I thought there was too much inconsistency in this system.
7	I would imagine that most people would learn to use this system very quickly.
8	I found the system very cumbersome to use.
9	I felt very confident using the system.
#	I needed to learn a lot of things before I could get going with this system.

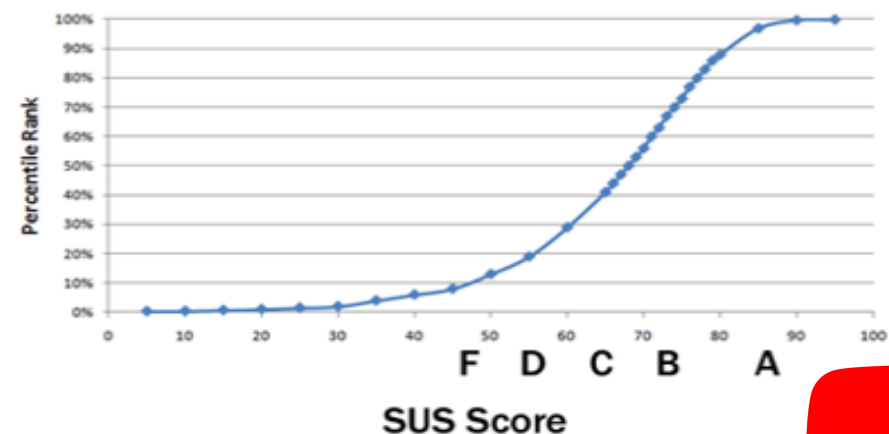
	Alejandra	Aris
1	5	5
2	1	1
3	5	5
4	2	1
5	4	5
6	1	1
7	4	3
8	1	1
9	5	5
#	2	1

	Total Score	
SUS Scores	80	95
	87,5	

Scoring SUS

- For odd items: subtract one from the user response.
- For even-numbered items: subtract the user responses from 5
- This scales all values from 0 to 4 (with four being the most positive response).
- Add up the converted responses for each user and multiply that total by 2.5. This converts the range of possible values from 0 to 100 instead of from 0 to 40.

Based on research, a SUS score above a 68 would be considered above average and anything below 68 is below average, however the best way to interpret your results involves "normalizing" the scores to produce a percentile ranking.



Kiviat diagram

<i>Golden Rules</i>	<i>Youtube</i>	<i>Twitch</i>
1. Strive for Consistency	10	8
2. Seek Universal Usability	9	6
3. Offer Informative Feedback	9	6
4. Design Dialogues to Yield Closure	10	10
5. Prevent Errors	10	10
6. Permit Easy Reversal	7	9
7. Keep Users in Control	9	9
8. Reduce Short-Term Memory Load	10	10

