

Practice Set

Color System, Background & Text

- Create a div bar with text and background color with opacity
- Change the color of the main content
- Add background image to one div
- Use background shorthand property

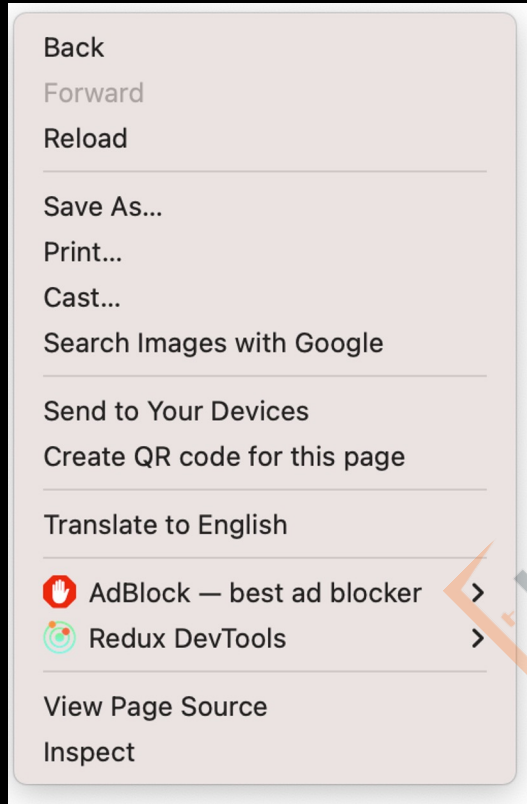


Browser Tools



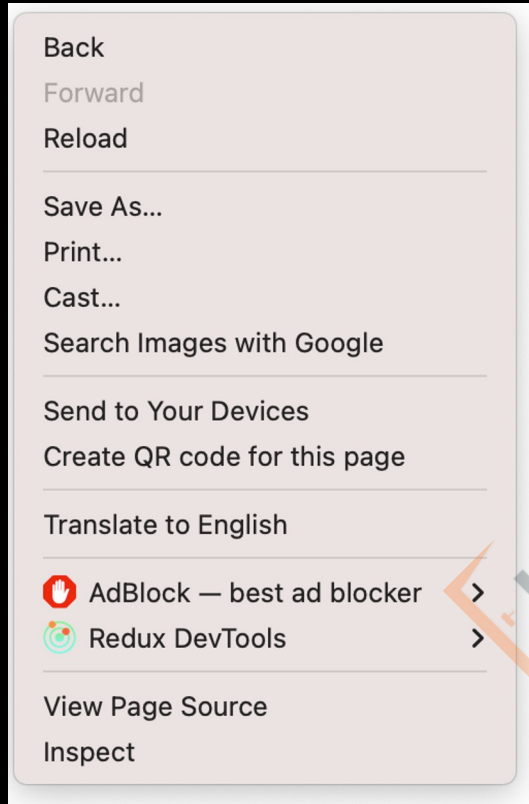
1. Browser Tools

View Page Source



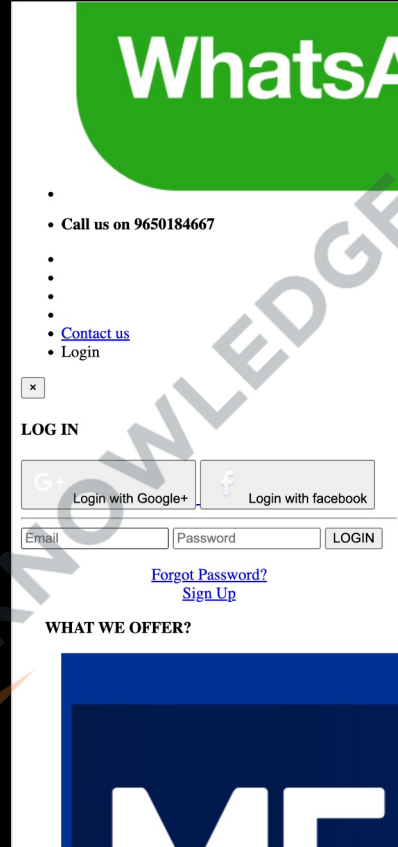
1. Displays **raw HTML** and **CSS**
2. Useful for debugging and learning
3. Shows external files like JavaScript links

Inspect Element



1. Allows **real-time editing** of HTML/CSS
2. Useful for debugging and testing
3. Shows **element hierarchy** and layout
4. Includes console for JavaScript
5. **Highlights** selected elements on page

HTML without CSS



HTML without CSS



Web Developer

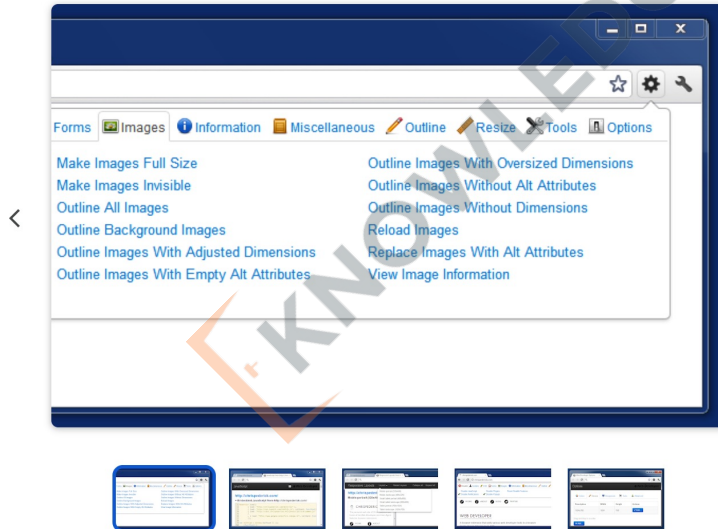
[chrispederick.com](#) 4.5 ★ (2.8K ratings)

Extension

Developer Tools

1,000,000 users

Remove from Chrome



Browser Tools



Responsive
Design

Different Screen Sizes



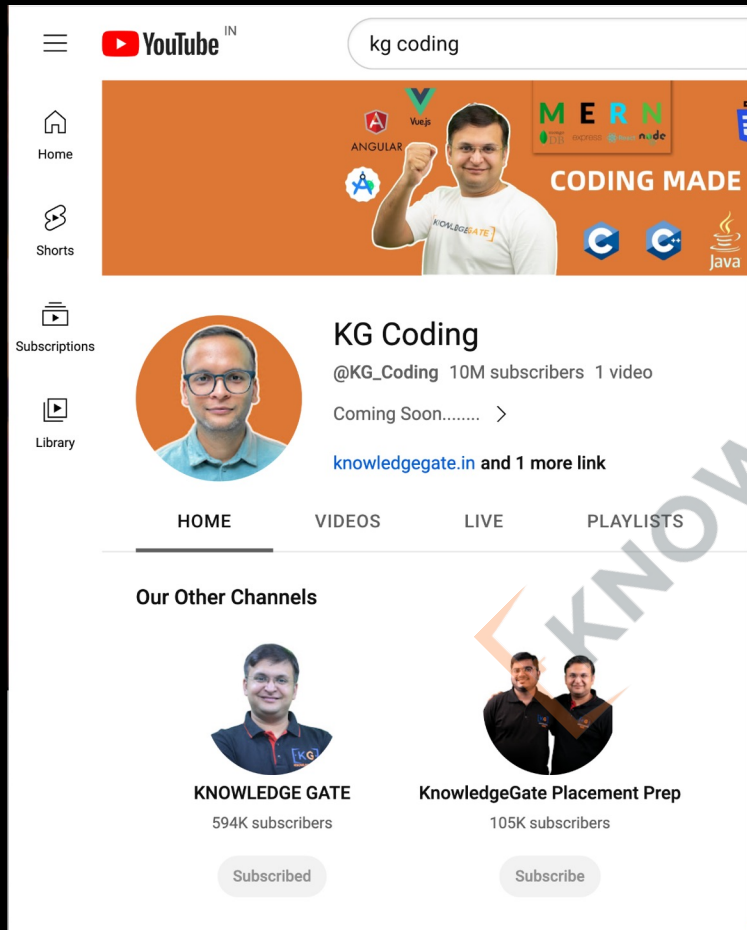
1. Adapts layout for different screen sizes
2. Flexible layouts
3. Optimizes images and assets
4. Enhances user experience on mobile and desktop

Browser Tools



Live Edit Code

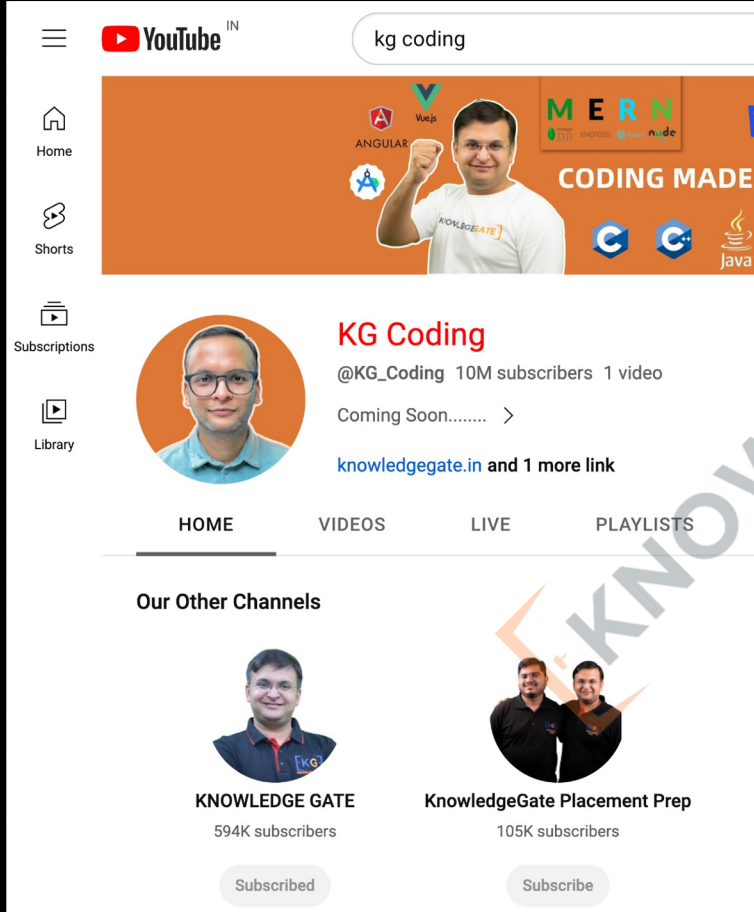
Live edit HTML



Changed **Subscriber** count

Live edit CSS

Changed **Channel Name** color



Changes happening at Client

1. Changes made are **temporary**
2. Affect **only** the current session
3. **Not saved** to the server
4. Reset upon page **reload**
5. Useful for **testing**, not permanent fixes



Like: If you change the question in your question paper that has no effect on actual exam.

Browser Tools (CSS specific element)

The screenshot shows the Chrome DevTools 'Elements' panel. The 'Styles' tab is selected and circled in red. It displays the CSS rules for the selected `h1` element. The rules are:

- `element.style { }`
- `h1 { color: red; }` (Source: `external styling.css:1`)
- `h1 { display: block; font-size: 2em; margin-block-start: 0.67em; margin-block-end: 0.67em; margin-inline-start: 0px; margin-inline-end: 0px; font-weight: bold; }` (Source: `user agent stylesheet`)

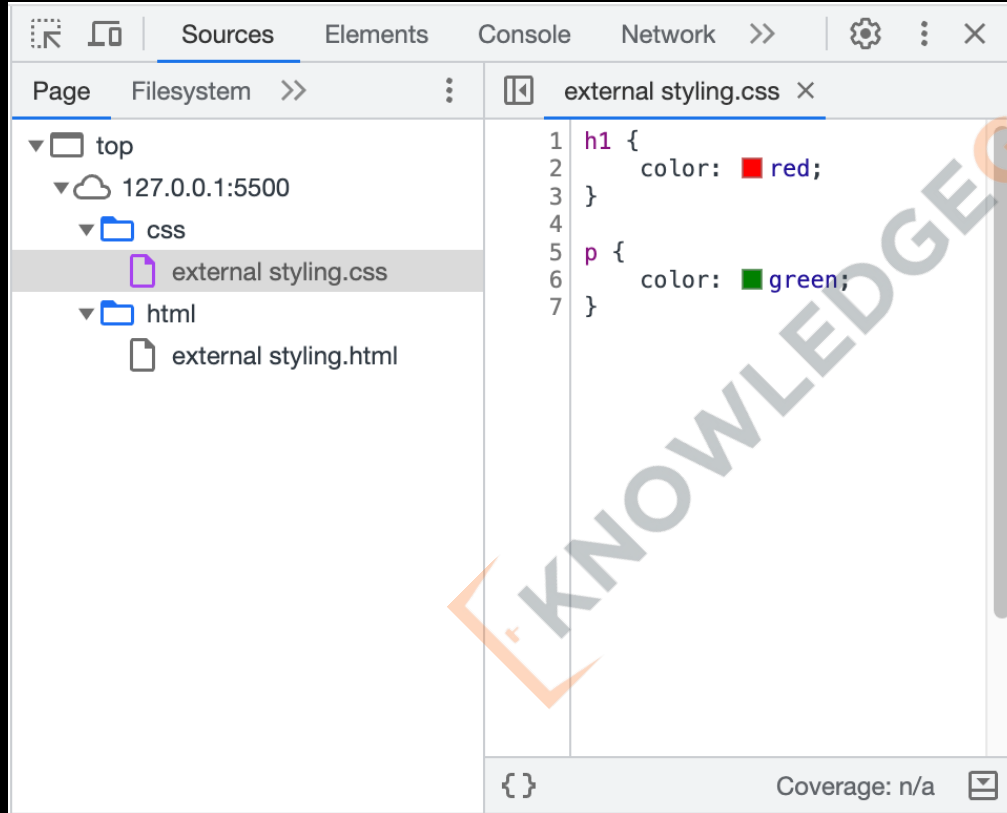
Below the styles, a 'Box Model' diagram is shown. It consists of four nested rectangles representing the different parts of the box model:

- margin**: The outermost rectangle, with a width of 21.440.
- border**: The next rectangle inward, with a width of 21.440.
- padding**: The next rectangle inward, with a width of 21.440.
- content**: The innermost rectangle, with a width of 249.200x36.800.

The diagram is labeled 'Box Model' in red text.

- Styles Panel
- Box Model
- Changes happening only at client

Browser Tools (Source tab)

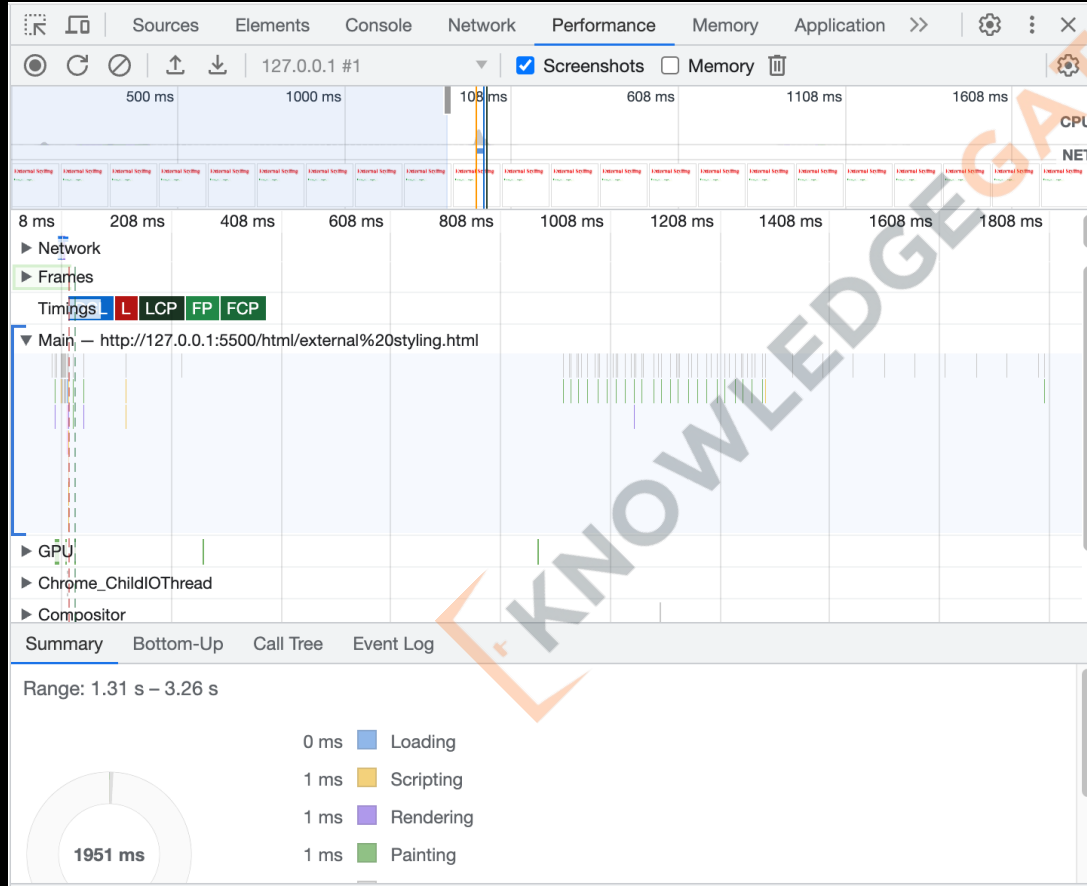


Browser Tools (Network tab)

The screenshot displays the Chrome DevTools Network tab. The top navigation bar includes tabs for Sources, Elements, Console, Network (selected), Performance, Memory, and Application. Below the navigation bar, there are icons for recording, pausing, and filtering, along with checkboxes for 'Preserve log', 'Disable cache', and a 'No throttling' dropdown. A search bar is present, followed by checkboxes for 'Invert' and 'Hide data URLs'. Below these are filters for 'All', 'Fetch/XHR', 'JS', 'CSS', 'Img', 'Media', 'Font', 'Doc', 'WS', 'Wasm', 'Manifest', and 'Other', along with checkboxes for 'Has blocked cookies', 'Blocked Requests', and '3rd-party requests'. A timeline at the top shows a scale from 0 to 90 ms. The main area contains a table of network requests and a waterfall chart.

Name	Status	Type	Initiator	Size	Time	Waterfall
external%20styling.html	304	docu...	Other	295 B	4 ms	
ws	101	webso...	<u>external stylin...</u>	0 B	Pending	

Browser Tools (Performance tab)



Browser Tools



Validating
WebPages

Using validator.w3.org

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for contents of text-input area

Checker Input

Show ☒ source ☐ outline ☐ image report [Options...](#)

Check by ☐ css

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>My First Webpage</title>
</head>
<body>
  <h1>Hello World!</h1>
</body>
<html>
```

[Check](#)

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. **Error** Stray start tag 'html'.

[From line 9, column 1; to line 9, column 6](#)

```
></body><html>
```

1. Ensures **HTML** adheres to standards
2. Minimizes **cross-browser** issues
3. Helps in achieving better **SEO** results
4. Easier to debug and maintain
5. **Optimizes** performance by reducing parsing errors

Practice Set

Browser Tools

1. Save Source of **Instagram** in a file and check the render.
2. **Inspect** the likes element on the page and read the code to understand.
3. Change number of likes on Your **Instagram** post
4. **Validate** the page we created in last project.

