# https://encrypted-tbn3.google.com/images?q=tbn:ANd9GcTLAZpQzmzAPnXtyNCq1onsRE4y0bvoWlMvd3YA8Lt715oLXEJxWAIT 5443 Web Technologies Study Guide **Module 3: CSS**

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## Overview and learning outcomes

CSS (cascading style sheet) plays the styling role which complements HTML’s content and structure role.

1. Explain the basic role and syntax of CSS.
2. Compare and use three style creation methods: in-line, in-page, and external style file.
3. Compare and use three kinds of selectors: HTML tag, id, and class.
4. Use <div> and <span> tags effectively for grouping content and layout.
5. Create basic CSS for an HTML document involving the following elements:
   1. Color and background
   2. Text and font: size, color, alignment
   3. Link: :hover
   4. List: list-style
   5. Box model: border, margin, padding, etc.
   6. Basic layout: float
6. Use CSS validator to validate your CSS.

This module is related to course level learning outcomes 2.

## Task list

1. Follow the core online learning materials listed in learning materials to learn and practice basic CSS. The video will get you some quick start but do complete the readings for more details.
2. Lab exercise: follow the CSS lab guide (no submission; practice until you feel comfortable and confident to complete the project)
3. Self-assessment: <https://www.w3schools.com/css/css_quiz.asp> - complete this quiz for yourself.
4. Project: complete project milestone #1 (covering HTML and CSS)

## Learning materials

1. Core online learning materials.
   1. <https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction_to_CSS/How_CSS_works>
   2. <https://www.w3schools.com/css/> - w3schools tutorials are simple, concise, and direct to the point, with plenty of live exercises. Read the following sections (menu on the left). Follow the tutorial and complete the hands-on examples (“Try it yourself”) as your read these webpages.
      1. “CSS Tutorial”: “CSS Home” to “CSS Display” (“Outline” and “Tables” optional).
      2. “CSS Grid”: building page layout. <https://www.w3schools.com/css/css_grid.asp>
      3. Others optional if you have more time.
   3. Tutorial videos and examples. Please follow the video to create example files.
      1. CSS: <http://www.youtube.com/watch?v=om9WoKibHa4> to be used with the next item.
      2. Use browser tools: <https://www.khanacademy.org/computing/computer-programming/html-css/web-development-tools/a/using-the-browser-developer-tools>
2. CSS lab guide: “lab3-CSS.docx”
3. Examples and references
   1. CSS examples “lecture and lab example.zip” provided by the instructor.
   2. More W3schools examples: <https://w3schools.com/css/css_examples.asp>
   3. Quick reference: <https://w3schools.com/cssref/default.asp>
4. Additional readings and resources
   1. Mozilla Learning:
      1. <https://developer.mozilla.org/en-US/docs/Learn/CSS>
      2. <https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction_to_CSS/Cascade_and_inheritance>
   2. Khan Academy: <https://www.khanacademy.org/computing/computer-programming/html-css> (CSS Intro and Layout)
   3. <http://html.net/tutorials/css/>
   4. Great CSS resource: <https://css-tricks.com>
   5. Videos: <https://www.youtube.com/playlist?list=PLr6-GrHUlVf8JIgLcu3sHigvQjTw_aC9C>