

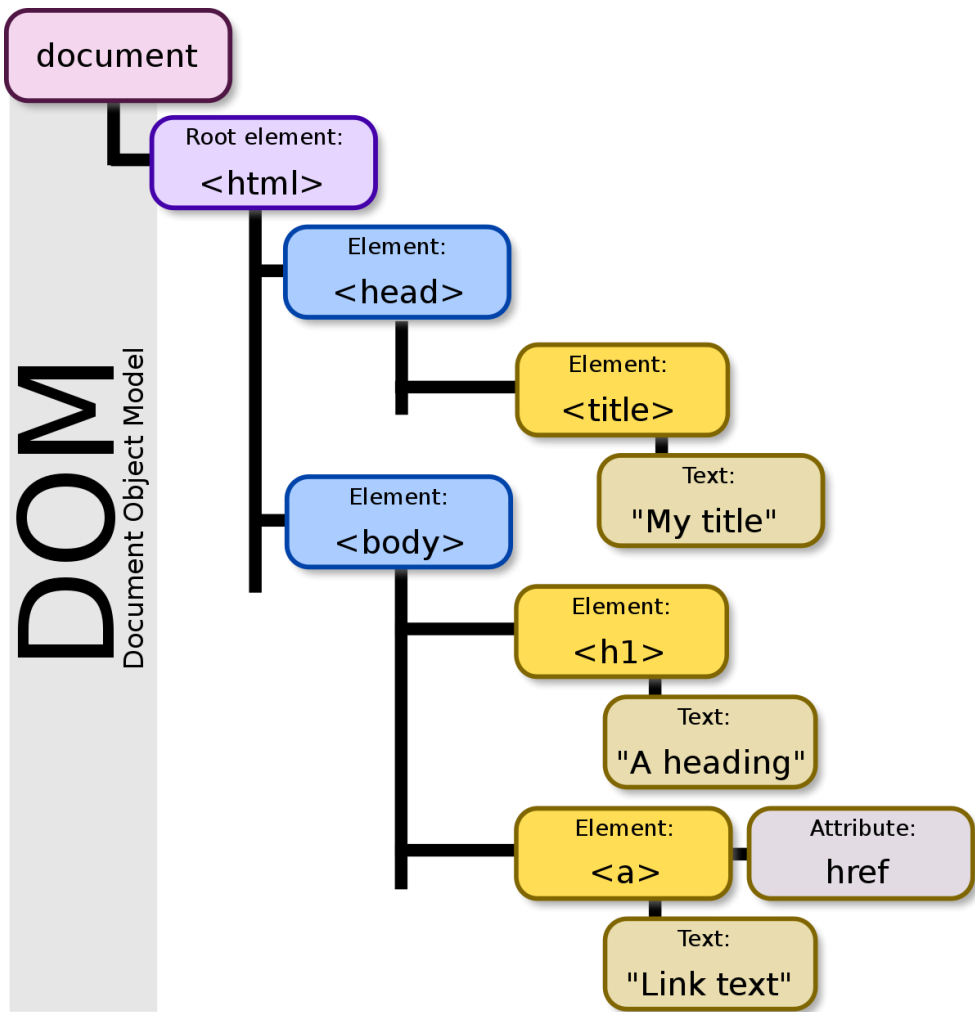
# Dynamic Web Design

Making the DOM submit

# DOM

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- **Document Object Model**
- Representation of your HTML document as a tree (made up of nodes) that can be modified using JS
- Used to change document structure, style, and content at runtime



# Selectors

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- These are used to identify elements in your DOM
- Types:
  - `document.getElementById()`
  - `document.getElementsByClassName()`
  - `document.getElementsByTagName()`
  - `document.querySelector()`
  - `document.querySelectorAll()`

# Events

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- Any type of interaction with the web page
  - User interactions such as clicking a button
- Any significant change in page state
  - Such as when certain elements have been loaded

# Dynamic Web Design

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- A web page is dynamic if it reacts to user interaction
  - For example, clicking a button should be able to result in something occurring in your web page
- If you have a web page that does not change with user interaction then the web page is static (also very boring)

# Event Handling with JS

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- Event handlers
  - Functions that get called when an event happens
- Event listeners
  - Added to elements, call an event handler when a certain event occurs

# Discussion

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- What's the difference between a dynamic and a responsive web design?
- What does it mean if your web page is dynamic? What does it mean if your web page is responsive?
- Can a web page be dynamic but not responsive? Can a web page be responsive but not dynamic?
- What are events?
- What is the DOM?



# Resources

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- [Query Selectors](#)
- [DOM](#)
- [Event Listeners](#)