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1. **What programming language is required for AJAX?**

Ajax uses a combination of XMLHttpRequest object to request data and JavaScript and HTML DOM to display the data.

1. **Describe what AJAX is and what it allows a web developer to do.**

AJAX allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes. It is possible to update parts of a web page, without reloading the whole page.

1. **Give two examples of what AJAX can be used for.**

Ajax can be used for login forms. A user can enter username and password into the page, ajax sends the info to the server to log them in. The server tells the page you’ve been logged in and once page you are on updates as needed.

Google was one of the first companies to use AJAX. Its search engine gives suggestions. When typing into the search bar, it starts to use AJAX to get common results from the database on each keystroke.

1. How do XML and JSON relate to AJAX?

AJAX can be used for interactive communication with an XML file. Both JSON and XML can be used to receive data from a web server. JSON is faster and easier to use than XML.

1. Why has JSON become the preferred format for AJAX?

JSON is parsed into a ready-to-use JavaScript object. JSON is faster and easier to use than XML. When using XML: it fetches an XML document, uses the XML DOM to loop through the document, and extracts the values and store in variables. When using JSON it feches a JSON string then JSON.Parse the JASON string.