



Email delivery service that gets
to the inbox in 2.6 seconds.



What is HTTP?

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HTTP stands for **H**yper **T**ext **T**ransfer **P**rotocol

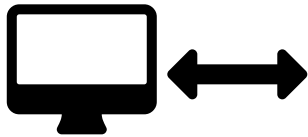
WWW is about communication between web **clients** and **servers**

Communication between client computers and web servers is done by sending **HTTP Requests** and receiving **HTTP Responses**

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Servers are most often computers in the cloud.



Web Client



Cloud



Web Server

HTTP Request / Response

Communication between clients and servers is done by **requests** and **responses**:

1. A client (a browser) sends an **HTTP request** to the web
2. An web server receives the request
3. The server runs an application to process the request
4. The server returns an **HTTP response** (output) to the browser
5. The client (the browser) receives the response

The HTTP Request Circle

A typical HTTP request / response circle:

1. The browser requests an HTML page. The server returns an HTML file.
2. The browser requests a style sheet. The server returns a CSS file.
3. The browser requests an JPG image. The server returns a JPG file.

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All browsers have a built-in **XMLHttpRequest Object (XHR)**.

XHR is a JavaScript object that is used to transfer data between a web browser and a web server.

XHR is often used to request and receive data for the purpose of modifying a web page.

Despite the XML and Http in the name, XHR is used with other protocols than HTTP, and the data can be of many different types like HTML, CSS, XML, JSON, and plain text.

The XHR Object is a **Web Developers Dream**, because you can:

- Update a web page without reloading the page
- Request data from a server - after the page has loaded
- Receive data from a server - after the page has loaded
- Send data to a server - in the background

The XHR Object is the underlying concept of **AJAX** and **JSON**:

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Expert Email Delivery

Proven APIs
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Integrate in Minutes

The advertisement features the Twilio SendGrid logo at the top. Below the logo, the text 'Expert Email Delivery' is prominently displayed in blue. Underneath, three lines of text describe the service: 'Proven APIs', 'Reliable Infrastructure', and 'Integrate in Minutes'. At the bottom, there is a stylized illustration of a person with dark hair wearing a purple headset, sitting at a green desk and working on a laptop. Above the person's head is a light blue thought bubble containing several lines of green code, representing email delivery or API integration.

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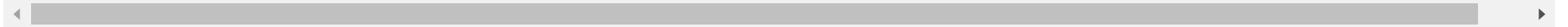
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