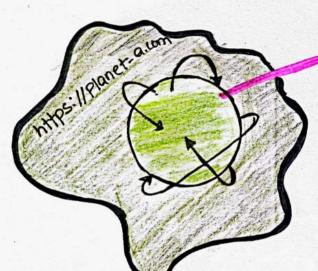
CORS VISUALS

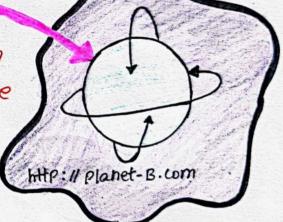
What is CORS?

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As a standard, browsers implement Same-Origin Policy, which means requesting data from the same origin is allowed, but requesting data from another URL will throw an error. This is implemented for security reasons.



with CORS, resources can be requested from one URL to another.



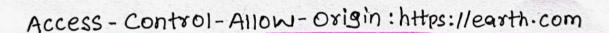
CORS (Cross - Origin Resource Sharing) is on HTTP-based mechanism that enables the browser to access resources Outside a given domain.

breakdown of CORS: ATUL KOM OR CLINKED IN NOTES CAMBRICIAN CELLULAR OF CORS

When the browser makes a Cross-Origin request, it will add an 'Origin' header that states the scheme (protocol), and part number.



Oxigin: https://earth.com



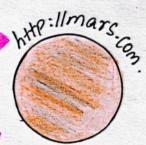


The Server responds and adds an 'Access-Control-Allow-Origin' header in the response. If this header's origin is the same as the origin sent in the request, access to the resource is granted.

You've seen how a basic CORS request works, but some HTTP methods (all except GET, POST, and HEAD) require a preflight request before the main request is sent:

xq:11earth.com

OPTIONS / Oxygen - data Origin: http://earth.com Access-Control-Request-method: POST



HTTP 200 OK Access-Control-Allow-Method: POST Access-Control-Allow-Origin: http://earth.com

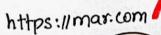
Preflight requests start with the browser sending an HTTP OPTIONS request with the proposed request Method of the main request.

The server will respond with the 'Access-Control-Allow Method header. If the browser is requesting a Method the resource holder Consider invalid, the request fails. If not, it is accepted and the main cors request follows.

CORS with Preflight Example

A website makes an AJAX calls to Post Json data to a REST API

https://earth.com/mars weatherapi



preflight response

P.Reslight Request



Let's POSTour Latest weather update to Earth!



Main cors response.

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The response to a preflight request may also contain on Access-Control-Max-Age header specifying the time the response must be cached within.



Using this header, the client won't need to send a preflight request everytime it wants to access the cors resource.