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what is progressive rendering,how it works, give example and give code for acheiving it




Progressive rendering is a web development technique that involves displaying content to the user as it becomes available, rather than waiting for the entire page to load before rendering any content. This technique can improve perceived performance and user experience, especially on slower or unreliable internet connections.  

Progressive rendering works by prioritizing the loading and rendering of certain elements on a web page, while deferring others. For example, a web page might prioritize loading and rendering the main text content first, while deferring the loading of images and other non-critical resources until later.


An example of progressive rendering in action is Google Images. When you search for an image on Google, you will see a grid of image thumbnails. As you scroll down the page, additional images are loaded and displayed. This approach allows users to see and interact with the images as they become available, rather than waiting for the entire page to load before seeing any results.

Here's an example of how you could achieve progressive rendering using JavaScript and jQuery:

```
javascript  Copy code

$(document).ready(function() {
  // Load and display main content
  $("#main-content").load("main-content.html", function() {
    $(this).fadeIn();
  });

  // Load and display images
  $(".image").each(function() {
    $(this).attr("src", $(this).attr("data-src"));
  });
});
```

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In this example, we are using the jQuery library to load and display the main content of the page from a separate HTML file, and then fading it in once it has loaded. We are also using jQuery to load and display images on the page, by setting the 'src' attribute of each image to a 'data-src' attribute that contains the URL of the image. Once the image has loaded, we fade it in.

By using this technique, we are able to prioritize the loading and rendering of the main content of the page, while deferring the loading and rendering of images until later. This allows users to see and interact with the page as it becomes available, rather than waiting for the entire page to load before seeing any content.




how it prioritize html file instead of image,give example?




To prioritize the loading and rendering of HTML content over images, you can use the 'defer' attribute on the 'script' tag that loads your JavaScript code. The 'defer' attribute tells the browser to download the script in the background while the HTML content is being parsed, but to defer executing the script until the HTML content has been fully parsed and rendered.  

Here's an example of how you could prioritize the loading and rendering of HTML content over images using the 'defer' attribute:

```
html  Copy code

<!DOCTYPE html>
<html>
  <head>
```

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```
<script src="main.js" defer>
</script>
<body>
  <h1>Welcome to my web page!</h1>
  <p>This is some HTML content that should be prioritized over images.</p>
  
  
</body>
</html>
```



In this example, we have added the 'defer' attribute to the 'script' tag that loads our JavaScript code. This tells the browser to download the JavaScript code in the background while the HTML content is being parsed and rendered. This allows the HTML content to be prioritized over the images, as the browser will not wait for the JavaScript code to download and execute before rendering the HTML content.

By prioritizing the loading and rendering of HTML content over images, we can improve the perceived performance and user experience of our web pages, especially on slower or unreliable internet connections.



how above jquery code represent progressive rendering?



The above jQuery code represents progressive rendering because it loads and displays content as it becomes available, rather than waiting for the entire page to load before rendering any content. The code achieves this by loading the main content of the page  

first, and then loading and displaying images on the page.

The first part of the code loads the content from a separate HTML file using the `load()` function, and the content is loaded:

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```
$(this).fadeIn();  
});
```

The `load()` function loads the content of the `main-content.html` file into the `#main-content` element on the page. Once the content has been loaded, the callback function is called, which fades in the `#main-content` element using the `fadeIn()` function.

The second part of the code loads and displays images on the page using the `each()` function:

Javascript

Copy code

```
$(".image").each(function() {  
    $(this).attr("src", $(this).data("src")).fadeIn();  
});
```

This code selects all elements on the page with a class of `image`, and then iterates over them using the `each()` function. For each element, it sets the `src` attribute of the element to the value of its `data-src` attribute, which contains the URL of the image. Once the image has loaded, it fades in using the `fadeIn()` function.

By loading and displaying content as it becomes available, the above code achieves progressive rendering, which can improve the perceived performance and user experience of the web page, especially on slower or unreliable internet connections.



If i don't use defer attribute then it will load script then html and css?



Yes, if you don't use the `defer` attribute on your `script` tag, the browser will download and execute your JavaScript code before parsing and rendering the HTML and CSS content of your web page.



This can potentially slow down the loading and rendering of your web page, especially if your JavaScript code is large or takes a long time to execute. By using the `defer` attribute, you can tell the browser to download your JavaScript code in the background while parsing and rendering your HTML and CSS content, which can improve the perceived performance and user experience of your web page.

If you don't use the `defer` attribute, the browser will download and execute your JavaScript code as soon as it encounters the `script` tag in your HTML code. This can cause the browser to pause rendering the HTML and CSS content until the JavaScript code has finished executing, which can potentially slow down the loading and rendering of your web page.

In general, it's a good practice to use the `defer` attribute on your `script` tags, especially if your web page contains a lot of JavaScript code or if you want to prioritize the loading and rendering of your HTML and CSS content.

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