Notes:

Making a frame:

Browser makes a GET request to the server, the server responds with some HTML.

The browser then parsers the document.

Parse HTML = DOM

The browser then combined the DOM with CSS, the dev tools calls this “Recalculate Styles.”

DOM + CSS = Render Tree

The browser then figures out how much space to give each element and places those boxes in the viewport; this is called “Layout.”

The vectors get turned into raster images. The dev Tools calls this “Paint.”

The browser also has to create the JPEGs and other images, which is called “Image Decode + Resize”

Some websites have layers, which can each be painted. The dev tools calls this “composite layers.”

JavaScript = yellow, Style and Layout = purple, Paint and Composite = green

Yellow = work that results in visual changes. This could be from JS, CSS animations, or Web Animations API.

App Lifecycles:

Response, Animate, Idle, Load

Things to load during the post load idle state: Image assets, Videos, Comments sections, anything not in initial viewport.