ElementRef and Renderer2

The Renderer is a class that is a partial abstraction over the DOM. Using the Renderer for manipulating the DOM doesn't break server-side rendering or Web Workers (where direct access to the DOM would break).

ElementRef is a class that can hold a reference to a DOM element. This is again an abstraction to not break in environments where the browsers DOM isn't actually available.

If ElementRef is injected to a component, the injected instance is a reference to the host element of the current component.

There are other ways to acquire an ElementRef instance

like @ViewChild(), @ViewChildren(), @ContentChild(), @ContentChildren(). In this case ElementRef is a reference to the matching element(s) in the template or children.

Renderer and ElementRef are not "either this or that", but instead they have to be used together to get full platform abstraction.

Renderer acts on the DOM and ElementRef is a reference to an element in the DOM the Rendereracts on.