

<b>Type:</b> Component	<b>Title:</b> ToC	<b>Status:</b> X
<b>Context:</b> After creating the post page layout, the first state-demanding concern surfaced which is dynamic ToC rendering with interactable redirects.		

**Core Decision:** Create auto-populating ToC which receives headers from page

Prospects	Decision Parameters	OTD Concerns
<ul style="list-style-type: none"> <li>Sticky element aligned vertically on right</li> <li>Populates itself based on page content</li> <li>Handles subheaders</li> <li>Interactive, goes to certain section</li> <li>State-managed styling indicative of current section</li> </ul>	<ul style="list-style-type: none"> <li>Tag-dependent automation</li> <li>Component-dependent automation</li> </ul>	<p>⚡ Exceeding minimalistic API will cause heavy technical debt when employing dynamic posts via database</p>

Decision Process	Results and Conflicts		
<ul style="list-style-type: none"> <li>Transform manual h5-h6 markup to RFC             <ul style="list-style-type: none"> <li>Hook each header with an id</li> <li>Automate anchors for each id received                 <ul style="list-style-type: none"> <li>ToC RFC and Header RFC separated</li> </ul> </li> <li>Use string interpolation for anchor ID ex. -`#\${headerId}`-</li> </ul> </li> <li>Dynamic styling via intersection observer             <ul style="list-style-type: none"> <li>Handled by Section and onScreen component</li> <li>Grouped body content into section tag and used nextElementChild to observe</li> </ul> </li> <li>Spanning observation complete             <ul style="list-style-type: none"> <li>Must deal with upward scroll observation</li> <li>'Overlord' object with methods requires modification</li> </ul> </li> <li>Component refactor</li> <li>For curr-head, have two edge cases:             <ul style="list-style-type: none"> <li>Length == 1, delete old node</li> <li>Length &gt; 1, recursive delete node till length index</li> </ul> </li> <li>Overlord omitted, create pseudoclass NodeList object instead             <ul style="list-style-type: none"> <li>Contains methods for retrieving and manipulating specific nodes</li> <li>Separation of concerns</li> <li>Handles &gt; 1, = 0, with highlight on observe as initial behavior</li> </ul> </li> </ul>	Dynamic ToC rendering	Rapid zooms can cause stale rendering which would otherwise be fixed on observer changes	<ul style="list-style-type: none"> <li>May fix with event listeners</li> <li>Does not include handling subheader tags</li> </ul>