

Find in Outputs

- Find is no longer **synchronous**
 - Progress bar in Find Widget
 - Require all outputs to be rendered first
- `window.find`
 - Shadow DOM nodes are skipped in non-chromium browsers
 - no builtin css rule for find match color
- `hiliteColor`
 - Modifies DOM
 - Shadow DOM not supported, we can potentially have our own impl
- Find match range serialization `document.getSelection`
 - `document.getSelection().getRangeAt(0).cloneRange()` not immutable, changed when document active selection changes
 - range will be invalid after `hiliteColor` executed
 - require our own serialization/deserialization
- Performance
 - `window.find` can be slow
 - * We currently traverse the DOM tree to figure out which cell/output contain the find match belongs to, it's really costly. One idea is checking the absolute position of the find match and compare it with output container positions.
 - Search only rendered outputs
 - * MutationObserver for output change
 - * Change active selection to the beginning of the new output and then request `window.find`