

Read only fields

WIP

Status	COMPLETE
Impact	HIGH
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Informed	@ Mitchell Hamilton @ John Molomy @ Ben Conolly
Due date	
Resources	

Relevant data

A11y for read only web-native fields has long been a contentious problem space. Generally there are a few reasonable approaches to displaying read-only values in a form. The read-only attribute on form fields are applied inconsistently in the browser such that they:

- only apply to inputs of type `text` and `number` (checkbox, radio, and select elements either don't have this attribute or the attribute doesn't work as expected)
- are read in inconsistent ways across the different core screen reader technologies

However the common alternatives such as the `disabled` attribute and `plain text` values all come with various a11y issues in the context of browsing a form such that an obvious superior solution is not self evident.

Background

Users are given the ability to toggle field states in the ItemView of the Keystone Admin UI between `editable hidden` and `read`, the latter of which encompasses the read-only functionality we are looking to provide. At the moment, these are all displayed as plain text values, which present with a set of a11y challenges. Namely:

- These values do not have a tab-stop,
- These values are not associable with the field label

However the problem space is made complex by the fact that a variety of keystone fields are not able to ascribe to using a `readOnly` attribute. We have `input` types with read-only attributes that don't work as expected natively, such as `radio` and `checkbox`, we have form fields that don't have read-only attributes at all such as `select` and we have fields that are not traditional form fields such as `image`, `relationship card`, `relationship list` and `document`. This DACI aims to present and articulate the solutions and problems in this particular problem space clearly so we can come to a decision .

Options considered

	Option 1	Option 2	Option 3	Option 4 RECOMMENDED
Description	Label and plain text	read only input fields	disabled input fields	read only input field and custom read only fields for non standard keystone form fields.

<p>Pros and cons</p>	<ul style="list-style-type: none"> + Consistent browsing experience for all fields - Does not have tab-stop - Is not associable to a label, therefore values are extricated from their form and label context. 	<ul style="list-style-type: none"> + Native browser attribute for flagging a form input as read-only + Keeps tab-stop, so keyboard and screen reader users can access the field and value within the context of the form. + Read only form value is associated with the label. Focusing on the label will also focus the field and announce in the screen reader. - Does not work for checkbox - Does not work for select - Does not work for non-form fields (image, relationship document) 	<ul style="list-style-type: none"> + Works for checkbox + Works for select - Ignored by screen readers - Does not have a tab stop (not focusable) - Values are completely unreadable by non-sighted users 	<ul style="list-style-type: none"> + Ensures that we rely on good browser defaults for fields where these exist + Gives us the capability to provide a cohesive read-only experience across all keystone fields. + Keeps tab-stop, so keyboard and screen reader users can access the field and value within the context of the form. - A lot of custom code for differentiated fields that deviate from default browser behaviour. - Requires spiking of potential creative solutions for providing sound accessible read-only behaviour for differentiated fields.
<p>Estimated cost</p>	<p>SMALL</p>	<p>MEDIUM</p>	<p>MEDIUM</p>	<p>LARGE</p>

Action items

- Spike out the problem space in the context of Keystone Admin UI item view, particularly in reference to differentiated field types:
 - checkbox
 - select
 - document
 - image
 - file
 - date picker
 - password

Outcome

We've reached a consensus that, consistently bad is not better than sometimes good.

Engineering should lead the effort to finalise this decision, this is no longer a blocking body of work for design.