

Section 1 of 3: Impactful Dependency Abandonment

Thank you for agreeing to participate in this survey! This survey consists of **three sections** and should take no more than **5 minutes**.

Section 1 of 3: Impactful Dependency Abandonment

To begin, for each dependency listed below, please provide your best judgement as to whether it would be impactful and noteworthy to `${e: //Field/repo}` if the dependency were to hypothetically be abandoned by its maintainers in the future (i.e., if the project were to become unmaintained and no longer receive updates or support).

When making this judgement, please consider how the dependency is used in `${e: //Field/repo}` to the best of your recollection, and how `${e: //Field/repo}` may (or may not) be impacted by the dependency's future

hypothetical abandonment.

`${e://Field/___js_dep1}`

- ☐ This dependency's abandonment would likely be directly impactful to the project
- ☐ This dependency's abandonment would not likely be directly impactful to the project
- ☐ Unsure

`${e://Field/___js_dep2}`

- ☐ This dependency's abandonment would likely be directly impactful to the project
- ☐ This dependency's abandonment would not likely be directly impactful to the project
- ☐ Unsure

`${e://Field/___js_dep3}`

- ☐ This dependency's abandonment would likely be directly impactful to the project
- ☐ This dependency's abandonment would not likely be directly impactful to the project
- ☐ Unsure

Section 2 of 3: Feedback on Automatically Generated Judgements of Impactfulness

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Purpose: The purpose of this section is to get your feedback on automatically generated output from a prototype tool to predict the impactfulness of dependency abandonment for the three dependencies considered in the previous section.

Directions: Please review the assessment for each dependency, including the predicted judgement of impactfulness as well as the reasoning provided for each context factor, then answer the questions regarding the prototype's assessment to the best of your ability.

Context: For each dependency, we now provide an automatically generated assessment of whether the dependencies' abandonment would be impactful to `{e://Field/repo}`. This assessment includes a Judgement of Impactfulness, as well as our reasoning for four context factors which we predict may impact the

judgment (see descriptions of the four context factors below).

Descriptions of context factors:

Importance of Functionality: How important is the functionality provided by the dependency to the project?

Depth of Integration: How difficult is it to replace the dependency, considering how heavily integrated the dependency's usage is in the project's code base?

Availability of Alternatives: How difficult is it to find alternative packages that could serve as suitable replacements and provide the same functionality?

External Environmental Pressures: How likely is it that there are external changes (e.g., changing APIs or incompatibility with other changes to web standards, languages, or key frameworks) that would require an update to the dependency, so that not having those updates would be a problem to the project?

Dependency 1 of 3:

$\{e://Field/_{js_dep1}\}$ **Prototype Assessment**

Importance of Functionality:

$\{e://Field/_{js_dep1_importance_score}\}$

$\{e://Field/_{js_dep1_importance}\}$

Depth of Integration:

$\{e://Field/_{js_dep1_integration_score}\}$

$\{e://Field/_{js_dep1_integration}\}$

Availability of Alternatives:

$\{e://Field/_{js_dep1_alternatives_score}\}$

$\{e://Field/_{js_dep1_alternatives}\}$

External Environmental Pressures:

$\{e://Field/_{js_dep1_likelihood_score}\}$

$\{e://Field/_{js_dep1_likelihood}\}$

Judgement of Impactfulness:

$\{e://Field/_{js_dep1_impactful}\}$

$\{e://Field/_{js_dep1_reasoning}\}$

Do you agree with the conclusion of the Judgment of Impactfulness in the assessment of

`${e: //Field/ __js_dep1}`?

- ☐ Yes, I agree with the judgement
- ☐ No, I do not agree with the judgement
- ☐ Unsure

Do you agree with the reasoning provided for each of the four context factors in the assessment of

`${e: //Field/ __js_dep1}`? If you disagree with the reasoning provided for multiple context factors, please select all that apply

- ☐ Yes, I agree with the reasoning for all four context factors
- ☐ No, I do not agree with the reasoning for Importance of Functionality
- ☐ No, I do not agree with the reasoning for Depth of Integration
- ☐ No, I do not agree with the reasoning for Availability of Alternatives
- ☐ No, I do not agree with the reasoning for External Environmental Pressures
- ☐ Unsure

OPTIONAL: If you have additional comments on the prototype tool's reasoning or final judgment for this dependency, please share it here.

Dependency 2 of 3: **$\{e://Field/_{js_dep2}\}$** **Prototype Assessment**

Importance of Functionality:

$\{e://Field/_{js_dep2_importance_score}\}$

$\{e://Field/_{js_dep2_importance}\}$

Depth of Integration:

$\{e://Field/_{js_dep2_integration_score}\}$

$\{e://Field/_{js_dep2_integration}\}$

Availability of Alternatives:

$\{e://Field/_{js_dep2_alternatives_score}\}$

$\{e://Field/_{js_dep2_alternatives}\}$

External Environmental Pressures:

$\{e://Field/_{js_dep2_likelihood_score}\}$

$\{e://Field/_{js_dep2_likelihood}\}$

Judgement of Impactfulness:

$\$ \{e://Field/ _ _js_dep2_impactful\}$

$\$ \{e://Field/ _ _js_dep2_reasoning\}$

Do you agree with the conclusion of the Judgment of Impactfulness in the assessment of

$\$ \{e://Field/ _ _js_dep2\}$?

- ☐ Yes, I agree with the judgement
- ☐ No, I do not agree with the judgement
- ☐ Unsure

Do you agree with the reasoning provided for each of the four context factors in the assessment of

$\$ \{e://Field/ _ _js_dep2\}$? If you disagree with the reasoning provided for multiple context factors, please select all that apply

- ☐ Yes, I agree with the reasoning for all four context factors
- ☐ No, I do not agree with the reasoning for Importance of Functionality
- ☐ No, I do not agree with the reasoning for Depth of Integration
- ☐ No, I do not agree with the reasoning for Availability of Alternatives
- ☐ No, I do not agree with the reasoning for External Environmental Pressures

☐ Unsure

OPTIONAL: If you have additional comments on the prototype tool's reasoning or final judgment for this dependency, please share it here.

Dependency 3 of 3: **$\{e://Field/_{js_dep3}\}$** **Prototype Assessment**

Importance of Functionality:

$\{e://Field/_{js_dep3_importance_score}\}$

$\{e://Field/_{js_dep3_importance}\}$

Depth of Integration:

$\{e://Field/_{js_dep3_integration_score}\}$

$\{e://Field/_{js_dep3_integration}\}$

Availability of Alternatives:

$\{e://Field/_{js_dep3_alternatives_score}\}$

$\{e://Field/_{js_dep3_alternatives}\}$

External Environmental Pressures:

`${e://Field/___js_dep3_likelihood_score}`

`${e://Field/___js_dep3_likelihood}`

Judgement of Impactfulness:

`${e://Field/___js_dep3_impactful}`

`${e://Field/___js_dep3_reasoning}`

Do you agree with the conclusion of the Judgment of Impactfulness in the assessment of `${e://Field/___js_dep3}`?

- ☐ Yes, I agree with the judgement
- ☐ No, I do not agree with the judgement
- ☐ Unsure

Do you agree with the reasoning provided for each of the four context factors in the assessment of `${e://Field/___js_dep3}`? If you disagree with the reasoning provided for multiple context factors, please select all that apply

- ☐ Yes, I agree with the reasoning for all four context factors
- ☐ No, I do not agree with the reasoning for Importance of Functionality
- ☐ No, I do not agree with the reasoning for Depth of Integration
- ☐ No, I do not agree with the reasoning for Availability of Alternatives
- ☐ No, I do not agree with the reasoning for External Environmental Pressures
- ☐ Unsure

OPTIONAL: If you have additional comments on the prototype tool's reasoning or final judgment for this dependency, please share it here.

Block 2

Section 3 of 3: Rating Usefulness of Project-Specific Context Factors

For each of the four context factors, please rate how useful you believe it is in informing judgments about the

potential impactfulness of dependency abandonment.

	Not at all useful	Slightly useful	Moderately useful	Very useful	Extremely useful
Importance of Functionality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Depth of Integration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of Alternatives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External Environmental Pressures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If there are other factors that you use to make such judgments that are not mentioned in this survey, please share them here.