

Mattermost recipes are technical posts that show how to use Mattermost alongside other services or demonstrate Mattermost features. The goal of these posts is to provide you with a solution to a specific problem, a discussion about the details of the solution and some tips about how to customize it to suit your needs perfectly.

## Problem:

When using the `make i18n-extract` command you may sometimes see unexpected additions or removals after the command execution. Or in some cases you may not see the additions that you expected. It is important to check why.

You want to validate that your strings have been successfully extracted from your source code before you continue. This is a simple recipe illustrating how to review your results and to verify if your extraction was successful or not. If the extraction was unsuccessful this solution also provides a work around to correct this.

## Solution:

*(NOTE: The following recipe is for front end users only.)*

1. After you execute `make i18n-extract` you will need to review the results and validate that the strings were either added or removed in the `i18n/en.json` file.
  - a. Run `git diff` and determine if your strings were added or removed in the `i18n/en.json` file correctly. If this was a successful extraction you will have output similar to the below:

```
1 diff --git a/components/get_link_modal.tsx b/components/get_link_modal.tsx
2 index ab067a4a2..412db6289 100644
3 --- a/components/get_link_modal.tsx
4 +++ b/components/get_link_modal.tsx
5 @@ -79,6 +79,10 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
6         id='get_link.copy'
7         defaultMessage='Copy Link'
8     />
9 +     <FormattedMessage
10 +       id='new-text-id'
11 +       defaultMessage='New Text'
12 +     />
13   </button>
14   );
15   }
16 diff --git a/i18n/en.json b/i18n/en.json
17 index 99223a690..cd08b432b 100644
18 --- a/i18n/en.json
19 +++ b/i18n/en.json
20 @@ -2906,6 +2906,7 @@
21     "navbar.toggle2": "Toggle sidebar",
22     "navbar.viewInfo": "View Info",
23     "navbar.viewPinnedPosts": "View Pinned Posts",
24 +   "new-text-id": "New Text",
25     "notification.dm": "Direct Message",
26     "notify_all.confirm": "Confirm",
27     "notify_all.question": "By using @all or @channel you are about to send notifications to {totalMembers} people. Are you sure you want to do this?",
```

- b. However, if you have a string that was "not properly extracted" you will see output similar to the below. If you executed the `make i18n-extract` at this point nothing would change because the string `"new-text-id"` is not detected as a string that needs to be translated.

```

1 diff --git a/components/get_link_modal.tsx b/components/get_link_modal.tsx
2 index ab067a4a2..0adcd19cd 100644
3 --- a/components/get_link_modal.tsx
4 +++ b/components/get_link_modal.tsx
5 @@ -67,6 +67,7 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
6     let copyLink = null;
7
8     if (document.queryCommandSupported('copy')) {
9 +     const newTextId = 'new-text-id';
10     copyLink = (
11         <button
12             id='linkModalCopyLink'
13 @@ -79,6 +80,10 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
14             id='get_link.copy'
15             defaultMessage='Copy Link'
16         />
17 +     <FormattedMessage
18 +         id={newTextId}
19 +         defaultMessage='New Text'
20 +     />
21     </button>
22 );
23 }

```

2. The solution is to "tag" the string.

- a. We do this by using the "t" function, shown in the below example:

```

1 diff --git a/components/get_link_modal.tsx b/components/get_link_modal.tsx
2 index ab067a4a2..bce08d7df 100644
3 --- a/components/get_link_modal.tsx
4 +++ b/components/get_link_modal.tsx
5 @@ -5,6 +5,8 @@ import React from 'react';
6 import {Modal} from 'react-bootstrap';
7 import {FormattedMessage} from 'react-intl';
8
9 +import {t} from 'utils/i18n';
10 +
11 import SuccessIcon from 'components/widgets/icons/fa_success_icon';
12
13 type Props = {
14 @@ -67,6 +69,7 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
15     let copyLink = null;
16
17     if (document.queryCommandSupported('copy')) {
18 +     const newTextId = t('new-text-id');
19     copyLink = (
20         <button
21             id='linkModalCopyLink'
22 @@ -79,6 +82,10 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
23             id='get_link.copy'
24             defaultMessage='Copy Link'
25         />
26 +     <FormattedMessage
27 +         id={newTextId}
28 +         defaultMessage='New Text'
29 +     />
30     </button>
31 );
32 }

```

- b. At this point you will need to execute the `make i18n-extract` once again and determine if the extraction was successful. This will generate a message in the `i18n/en.json` file. However this is not going to extract the "default message", you will have to add this yourself. See example below:

```

4   +++ b/components/get_link_modal.tsx
5   @@ -5,6 +5,8 @@ import React from 'react';
6   import {Modal} from 'react-bootstrap';
7   import {FormattedMessage} from 'react-intl';
8
9   +import {t} from 'utils/i18n';
10  +
11  import SuccessIcon from 'components/widgets/icons/fa_success_icon';
12
13  type Props = {
14  @@ -67,6 +69,7 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
15      let copyLink = null;
16
17      if (document.queryCommandSupported('copy')) {
18  +      const newTextId = t('new-text-id');
19          copyLink = (
20              <button
21                  id='linkModalCopyLink'
22  @@ -79,6 +82,10 @@ export default class GetLinkModal extends React.PureComponent<Props, State> {
23                  id='get_link.copy'
24                  defaultMessage='Copy Link'
25              />
26  +      <FormattedMessage
27  +          id={newTextId}
28  +          defaultMessage='New Text'
29  +      />
30          </button>
31      );
32  }
33  diff --git a/i18n/en.json b/i18n/en.json
34  index 99223a690..4180a5e94 100644
35  --- a/i18n/en.json
36  +++ b/i18n/en.json
37  @@ -2906,6 +2906,7 @@
38      "navbar.toggle2": "Toggle sidebar",
39      "navbar.viewInfo": "View Info",
40      "navbar.viewPinnedPosts": "View Pinned Posts",
41  +    "new-text-id": "",
42      "notification.dm": "Direct Message",
43      "notify_all.confirm": "Confirm",
44      "notify_all.question": "By using @all or @channel you are about to send notifications to {totalMembers} people. Are you sure you want to do this?",

```

**WARNING:** Be aware when you use the "t" function, only the translation id is extracted. You have to add the translation string in the `i18n/en.json` file manually.

## Discussion:

For further discussion about translations or to ask for help, refer to the following Mattermost channels: [Localization](#) and [Contributors](#).