



## Group programming

Tags: [Flow](#)

Enable the group programming feature in your account to visualize contributions authored by multiple people. Use group programming settings to customize how group work is credited for each individual.

Choose how Flow allocates credit for Coding days, Commits per day, Impact, and HALOC metrics, including Rework, Efficiency, New work, and Legacy refactor.

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## Permissions

You need the **Configurations** permission to turn on group programming.

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## Enabling group programming

To find group programming:

1. Click **Settings** in the top navigation.
2. In the left navigation, click **Configurations** located under **Report settings**.
3. Click the **Group programming** tab on the Configurations page.

**Note:** Flow only applies group programming setting changes to new incoming data. It doesn't reprocess old data automatically. For this reason, it's best to enable group programming before importing your repos.

If you import a repo before enabling group programming, the previously imported data won't have the new settings applied.

To enable group programming:

1. Navigate to the **Group programming** tab on the Configurations page.
2. Toggle the **Enable** toggle **On**.

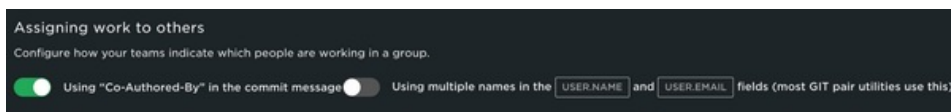
In the text box under **Labeling**, enter the label you want Flow to apply to group programming commits.

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## Assigning work to others

Use the toggles in the **Assigning work to others** section to set how Flow identifies when a commit is co-authored.



Toggle on **Using Co-Authored-By in the commit message** so your git host can mark commits with multiple authors:

- This convention is used by git hosts to mark commits with more than one author. For an example, learn more about [creating a commit with multiple authors \(external site, opens in new tab\)](#) in GitHub.
- For group commits authored solely on the commit message, you must include Co-authored-By with an email address or a GitLab username with an email address.

**Note:** If you include a comment in addition to listing the co-authors in the commit message, make sure each co-author is on a new line. For an example, learn more about [creating a commit with multiple authors for GitHub \(external site, opens in new tab\)](#).

Toggle on **Using multiple names in the user.name and user.email fields** so you can manually mark commits with multiple authors:

- This toggle is useful for commits with user.name and user.email fields similar to:
  - Jen Smith & Robert Aspens `jsmith@mycompany.com, raspens@mycompany.com`
  - Jen Smith & Robert Aspens `raspens@mycompany.com`

When the **Using multiple names in the user.name and user.email fields** is toggled **On**, the **Prefixes, E-mail delimiters**, and **Name delimiters** text boxes are active and editable.

Enter any prefixes or delimiters you want Flow to check for. Flow labels any commit containing these values in user.name or user.email as group work.

Prefixes (optional)

×

Add Another

E-mail delimiters (required)

×

×

×

Add Another

Name delimiters (required)

×

×

×

Add Another

1. Click the **Add another** button to enter additional values.
2. Click the **X** button to remove a value.

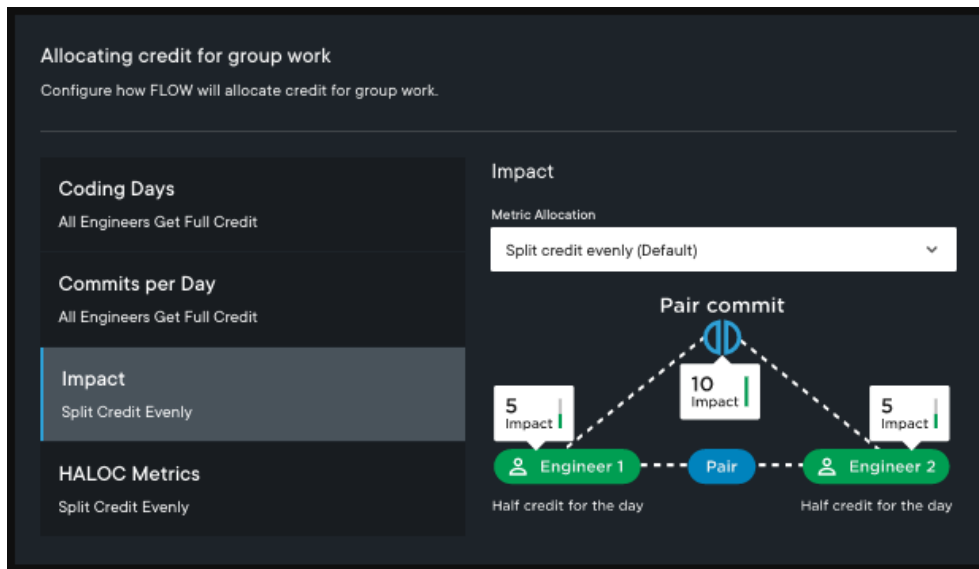
For example, a commit's user.name field contains `Jen Smith & Robert Aspens`. The commit's user.email field contains `jsmith@mycompany.com,raspens@mycompany.com`.

In this example, Flow labels the commit as group work when a text box under Email delimiters contains `,` or a text box under Name delimiters contains `&`.

Learn more about [Manually marking a commit as a group commit](#).

## Allocating credit for group work

Configure how Flow assigns credit for group work. You can split the work between contributors or give each contributor full credit.



Choose whether credit is split evenly or each contributor gets full credit for these metrics:

- Coding days
- Commits per day
- Impact
- HALOC metrics, including Rework, Efficiency, New work, and Legacy refactor.

Click **Save Changes** once you're done adjusting your group programming settings.

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## Viewing group programmed commits in reports

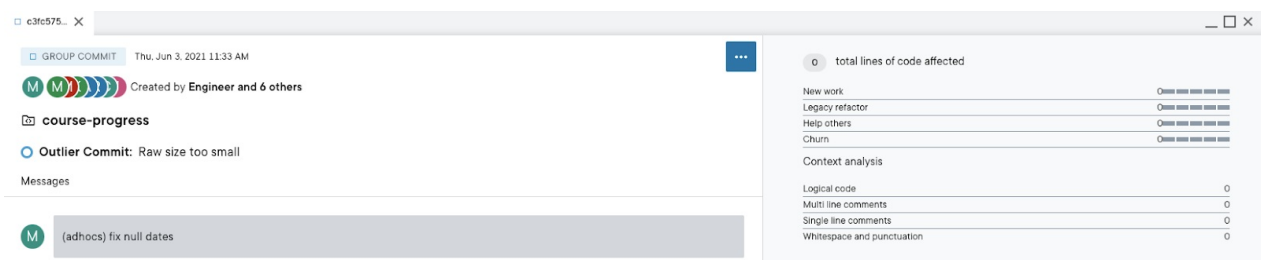
Once you've enabled group programming, Flow shows co-authored commits as squares in **Work log**.



To view group commits in Work log:

1. Click **Reports** in the top navigation.
2. Click **Work log** in the left navigation under Daily check.
3. Check the **Group** box in the custom filter on the left.

Click a group commit to see more details.



If Flow missed a commit or added too many authors, update the commits manually.

Learn more about [manually marking a group commit](#).

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If you need help, please contact [Pluralsight Support](#).