

Lab: Setup Burndown Chart for Your Plan Using GitHub

Estimated time needed: 20 minutes

In this lab, you will set up a burndown chart for your sprint plan using GitHub. A burndown chart is a visual management tool used in agile project management to track the progress of a project over time. It displays the amount of work remaining versus time. The x-axis in a burndown chart typically represents the timeline (days, sprints, etc.), while the y-axis shows the amount of work remaining (often measured in story points, tasks, or hours). The chart helps teams monitor their progress and predict if they will complete their work by the project's deadline.

Objectives

After completing this lab, you will be able to:

- 1. Understand how to set up your burndown chart
- 2. See the data that is contained in a burndown chart
- 3. Judge your progress in the sprint

Exercise 1: Set up your burndown chart

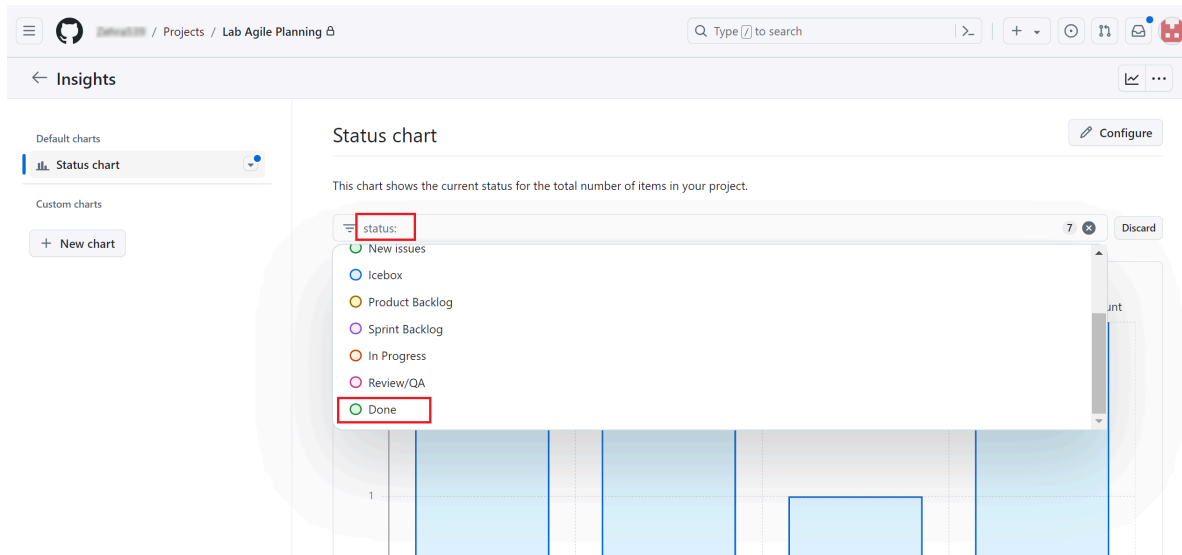
In this exercise, you will set up your burndown chart to show the status of the **Done** stories.

- 1. Go to [GitHub](#), sign in with your GitHub account, and bring up your Kanban board.

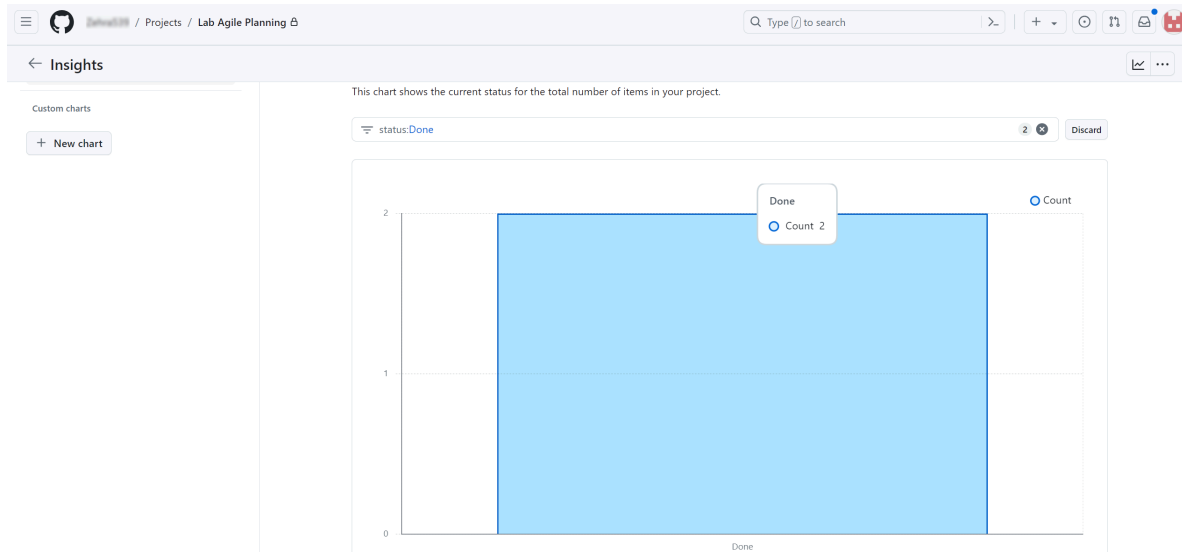
- 2. To create a burndown chart for your sprint in GitHub Projects, click the dropdown menu next to **Backlog** and select **Generate chart**.

- 3. This action will open the **Insights** section of your project. Here, you will see the default **Status chart** generated for your Project.

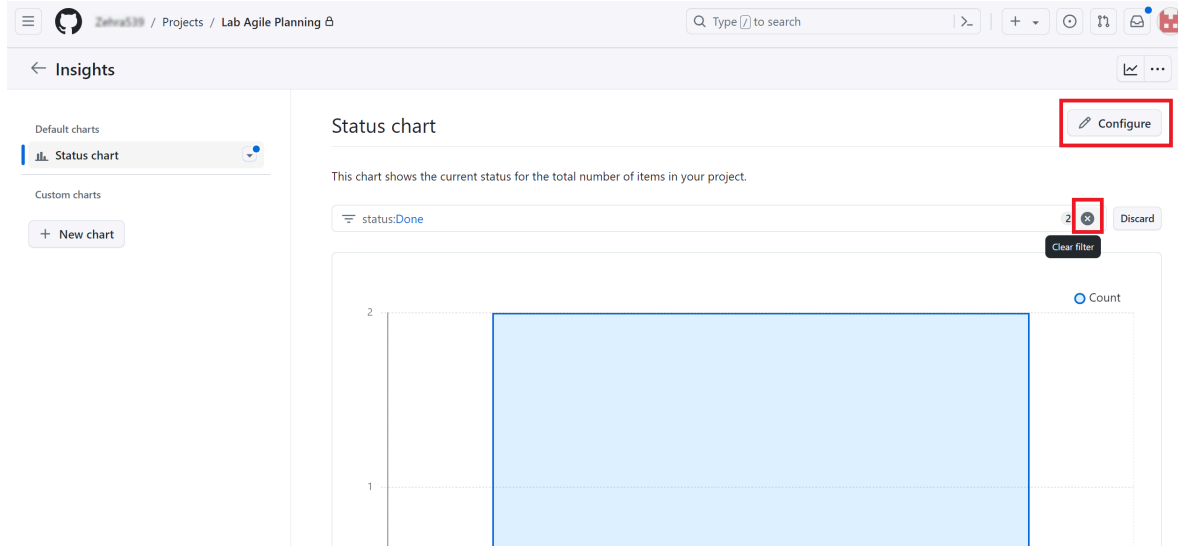
- 4. To set up a burndown chart that only shows the status of the **Done** column stories instead of the default chart, apply a filter. Click **Filter** by **keyword** or **field** text input, type **status**, and select **status** from the dropdown. This action will display another dropdown with all the columns from your Kanban board. Select **Done**.



5. By hovering over the chart, you can see the number of story points in the three columns. These include the two stories, **Need a service that has a counter and must persist counter across restart**, which you moved to Done in the lab [Move stories from In Progress to Done using GitHub](#)



6. Next, to create a new chart showing the number of story points completed and remaining in the sprint, start by clearing the filter by clicking the clear filter button. Then, click the Configure button, as shown in the screenshot below. This will provide a visual indicator of your progress.



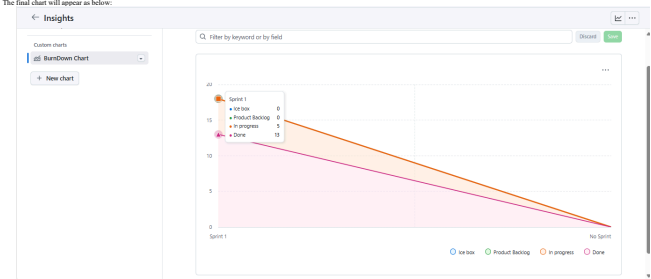
7. To configure the chart, add the following details:

- Layout: Select Stacked Area from the layout options.
- X-axis: Set the X-axis to Sprint.
- Group by: Choose Status to group the data by status.
- Y-axis: Set the Y-axis to Sum of a field.
- Y-axis field: Choose Estimate as the field to sum.

After configuring these options, click Save button. Change the name of the chart from Status chart to 'BurnDown Chart'



The final chart will appear as below:



You can use the following Colored Areas:

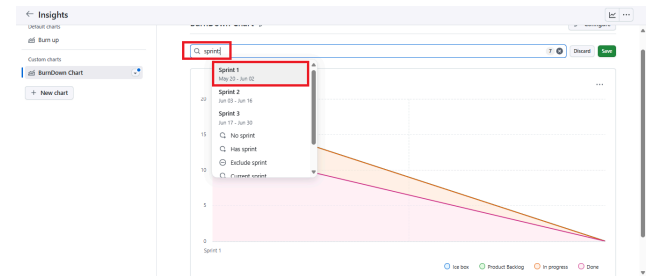
In Progress (Orange): Items still being worked on

Done (Pink): Items that have been completed

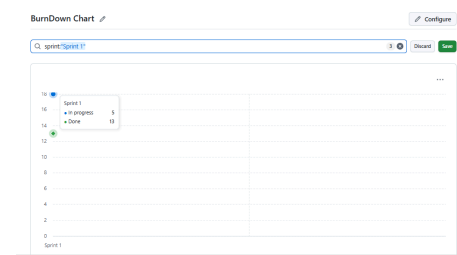
Ice Box (Blue) and Product Backlog (Green): The estimates of both are zero, so they don't appear visually

8. To focus on a specific sprint, use the filter option. Type sprint: in the filter box and select the sprint as sprint_1.

Please note that sprint_1 refers to the first iteration of the sprint you assign to the stories in the [Hands-On Lab: Build the Sprint Plan from your Product Backlog using Jira®](#).



9. Hovering your mouse over the **Done** (diamond) or **InProgress** (circle) will display how much work has been completed in the sprint(Done) and how much is still remaining(InProgress). You can also see total number of story points (In progress + Done) This provides a helpful visual indicator of your progress. The burndown chart allows you to quickly assess which stories are completed and which ones still require work.



Note: To gain deeper insights into your project, you can customize the x-axis, y-axis, and grouping options to suit your specific requirements. Additionally, you have the flexibility to modify the chart's layout to better visualize the data. By adjusting these settings, you can create more meaningful and informative representations that align with your analysis goals.

Summary

You learned how to set up a burndown chart to show the status of the done stories in your sprint. You also learned how to customize the chart to get a visual status of where you are in the sprint and see the status of individual stories. This information should help you get a good sense of how the work is progressing.

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