

Customize track appearance

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Introduction

IGB offers many options to customize the appearance of annotation tracks.

IGB remembers your customizations from session to session.

Some of the available customizations include:

- Annotation color
- Track background color
- Track label text, color
- Track height (pixels)
- Annotation stack height
- Annotations labels (e.g., using score or gene name)
- Changing track height and position in the display
- Changing strandedness of the tracks
- Changing the amount of data shown within the track (Stack Height)

You can change appearance of annotation tracks

- By clicking Annotation tab
- By right-clicking a track label and selecting **Customize...**
- By opening **File > Preferences > Tracks**

You can also set the default values for newly opened tracks based on file type using the **Track Defaults** tab in the **Preferences** window.

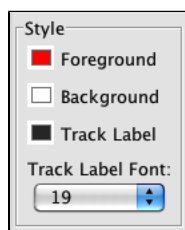
Track Colors

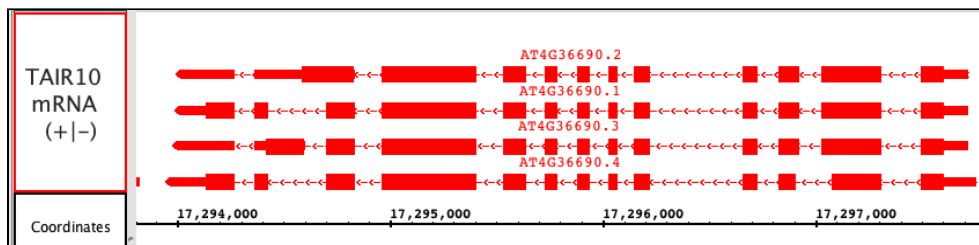
In IGB you can modify the color schemes for annotation and graph tracks. Using controls in the **Annotation** and **Track Preferences** tabs, you can

- change annotation and graph colors (foreground, FG)
- change background color (BG)
- change the color of the track labels

Unless you change it, the track label font color always matches the foreground color.

The following images shows the **Style** settings from the **Annotation** tab for a selected track. Note that the track label outline is red, indicated the track is selected.





Track label text

All annotation tracks have a track label in the panel on the left side of the display. You can change several aspects of how the label appears. You can

- change the text (called the "display name") displayed on the label
- change the track label text font size and color

To change the text in a track label, select the track by clicking its track label and

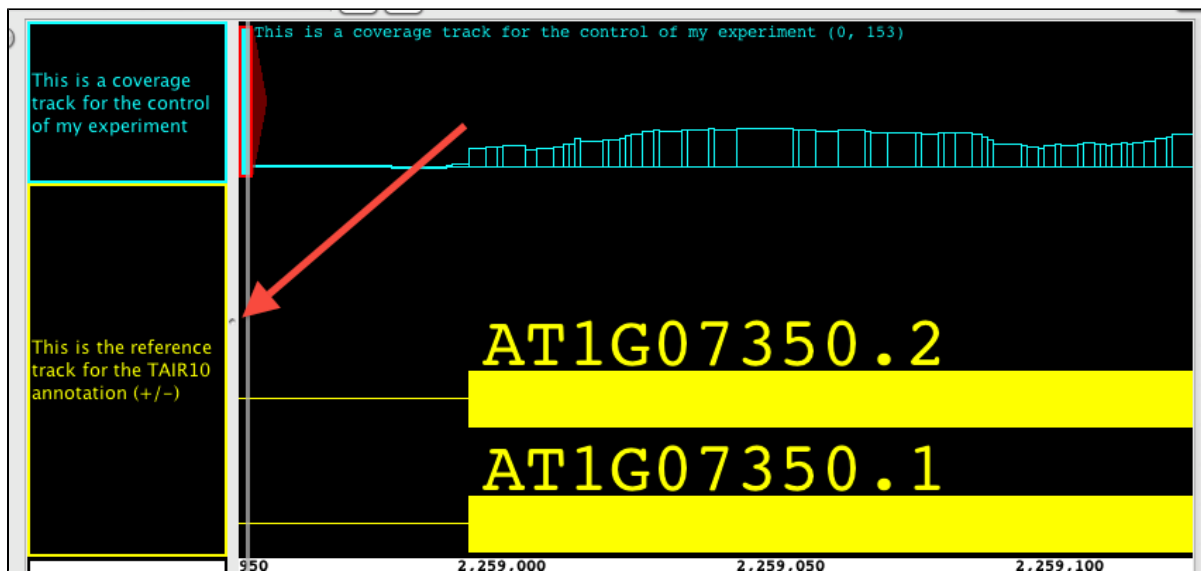
- choose **Preference > Tracks** tab and enter new text under the Track Name column
- or choose the **Data Access** panel and enter new text under the Track Name column in the **Data Management Table**

To change the track label font size, select the track by clicking its track label and

- choose **Preferences > Tracks** and enter a new value using the Track Label Font menu
- or choose the **Annotation** tab and enter a new value in the **Style** box

Track label width

You can also change the width of a track label. To increase or decrease track label width, drag the vertical bar that separates the labels from the data. The red arrow in the image below shows the 'grab point' which can be used to change the label column width.



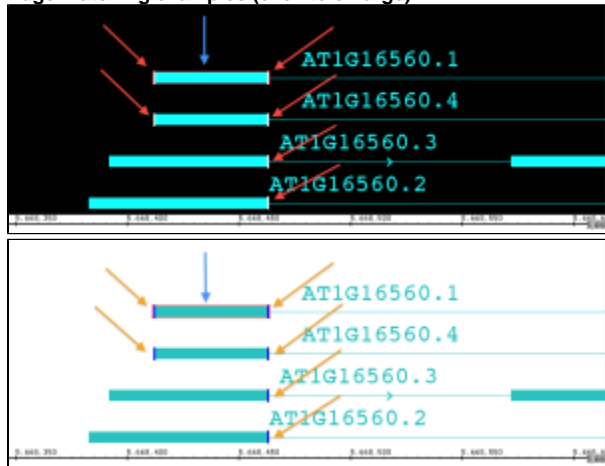
Edge Match color

If you use white or light gray shades for backgrounds, you may want to change the color of the **Edge Match** graphics so that it is easier to see.

To change the edge match color

- Open **File > Preferences > Other Options**
- Click on the swatch labeled Edge Match Color

Edge matching examples (click to enlarge)



Annotation labels

Every annotation has a set of associated attributes, such as its ID, score, name, gene name, description, start and end positions, and so on.

You can configure IGB to display any one of these attributes next to an annotation.

To change what values are shown as the annotation label

- Select the track by clicking its track label
- Click **Annotation tab**
- Choose an option in the **Label Field** menu



Choose score field for junction BED files created by TopHat

Strand controls

Combine or separate plus and minus strand annotations

IGB can show plus and minus strand features in separate tracks or combined into one track. To combine plus and minus strand annotation into a single track

- Select the track by clicking its track label
- Click **Annotation tab**
- Click +/- checkbox in the **Labels and Strand** sub-panel

Use Arrows to indicate strand

IGB can draw arrows within introns that indicate strand. To use arrows to indicate strand

- Select the track by clicking its track label
- Click **Annotation tab**
- Click **Arrow** checkbox in the **Labels and Strand** sub-panel

Use color to indicate strand

IGB can indicate annotation strand using color. To turn this option on or off or choose colors to use for minus and plus strand feature

- Select the track by clicking its track label
- Click **Annotation tab**
- Click **Color by Strand** checkbox in the **Labels and Strand** sub-panel
- Select colors by clicking the **Color by Strand** swatches

Collapsing and expanding tracks

Collapsing a track merges all annotations in the track into a single row.

To collapse a track

- right-click the track label and choose **Collapse**
- click the collapse track icon in the top left corner of the track

Stack height

The stack height setting controls the number of annotation rows that appear within a track. If there are more annotations than can be shown, IGB draws these in a single summary row in the top or bottom row of the track, depending on whether plus or minus strand features are being shown.

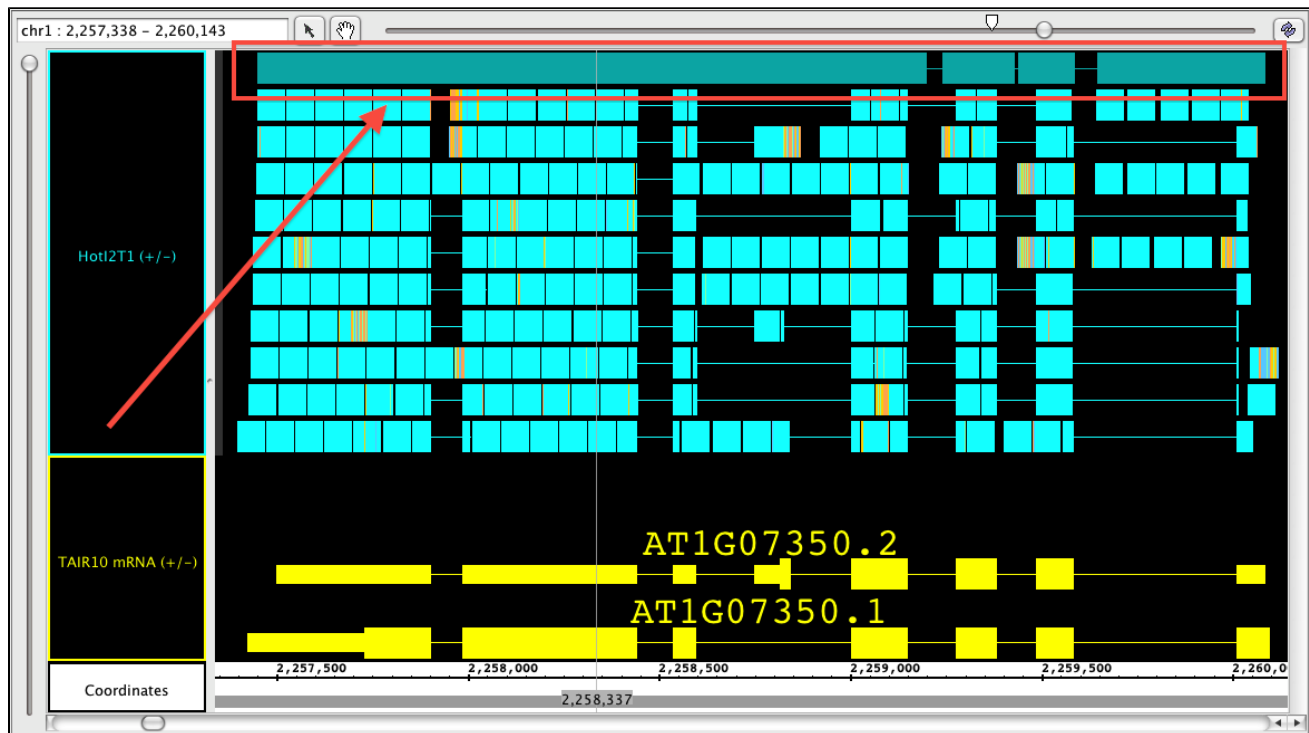
To change stack height, right-click the track label and

- choose **Set Stack Height**
- choose **Optimize Stack Height** to set a value that is optimal for the current view, e.g., ensure that all annotations will be drawn individually as part of a stack

or

- click the track label (to select the track) and click the corresponding stack height icons in the toolbar

In the image below, the **Stack Height** is set to 10. The red arrow points to the summary row.



Using color to represent scores

For annotation data that contains scores, IGB can display the data with color intensity reflective of the scores. The scores must have been included in the data when it was loaded. Files in GFF and BED format allow the specification of scores. To turn color-by-score on or off, right-click the track name and choose **Color by Score**.

The default range that IGB uses is 0 to 1000+. New for IGB 7.0, we have added the ability to Set Range of Color by Score. This allows the user to set both the top, as well as bottom scores to best display their data. You can set the lower value so that any data with a score below your threshold will be barely visible; you can set the upper score to the highest score in your data, or any other value. After setting the lower and upper values, IGB will scale the color intensity across the new range so that the highest values are most intense, and the lowest values are the least intense (see image below).

This function has no effect on data that doesn't contain scores.

In this image, exons are the scored value. Exons with the highest scores will display in the chosen foreground color (red arrows). Exons with the lowest scores will display in a color intensity that blends with the background color (blue arrows). All other scores will be displayed at color intensities associated with their numerical score, where mid range numbers will show with mid range color intensity (green arrows).

