What's New in MATLAB R2023a?
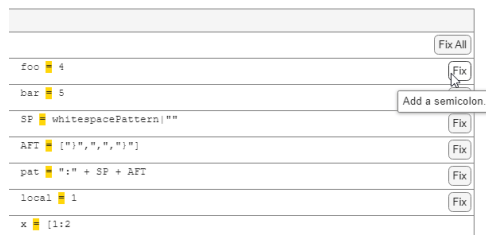
Environment

MATLAB install
Reduce footprint using default installation without local documentation
Starting in R2023a, the documentation is not installed as part of a MATLAB® or other product installation. This change significantly reduces the installation footprint of products.

Language & Programming

Code Analyzer App
Fix certain code issues directly from the Code Analyzer app using the Fix button.

Data Import & Export

Parallel Processing
Use readtable in thread-based environments
You can use the readtable function in thread-based environments. Parallel processing results in improved performance when reading data, especially with remote data.

Import Data Live Editor
Import data in live scripts
The Import Data Live Editor task allows you to import various types of data in a live script within a single framework. You can import these types of data: MAT-file, text & spreadsheet, image, audio, video, etc.

Data Analysis

Pivot function
Summarize tabular data using pivot table
Perform a pivoting operation on data in a table or timetable by using the pivot function. Specify grouping variables that define variables or rows in the pivoted table using colvars or rowvars.
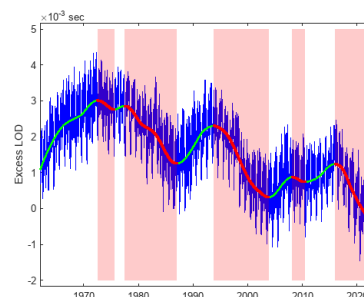

Table and Timetable
Perform calculations directly on tables and timetables without extracting their data
For more information, see Direct Calculations on Tables and Timetables and Rules for Table and Timetable Mathematics.

Timetable events and Timetable
Find and label events in timetables using attached event tables
An event consists of an event time (when something happened), often an event length or event end time (how long it happened), often an event label (what happened), and sometimes additional information about the event.

Apps & Graphics
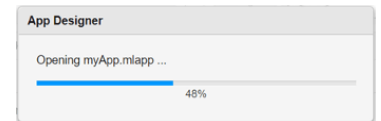
uihtml Function
Send events between MATLAB and HTML
To send an event to MATLAB, call the *sendEventToMATLAB* function on the htmlComponent JavaScript object in your setup method.
For more information, see Send Event from JavaScript to MATLAB and Send Event from MATLAB to JavaScript.
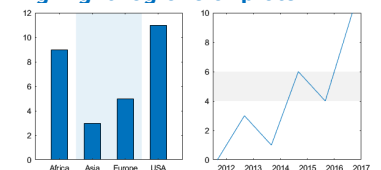
App Designer
View progress when loading app
When you load an app in App Designer, a progress bar now displays an estimate of its loading progress.

xregion and yregion Functions
Highlight regions of plots

New! MATLAB Test

MATLAB Test
Develop, manage, analyze, and test MATLAB applications
MATLAB® Test™ provides tools for developing, executing, measuring, and managing dynamic tests of MATLAB code, including deployed applications and user-authored toolboxes.