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~~Text Analytics~~

~~Toolbox? - Text
Analytics Toolbox~~

~~Overview~~ **Essential
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Video *Predictive*

Maintenance, Part 1:

Introduction ~~Signal~~

~~Processing and Machine
Learning Techniques for
Sensor Data Analytics~~

Robotics Tools and

Workflow - Peter Corke

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on Robotics System

Toolbox **How to
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sets from diverse fields such as climatology, predictive maintenance, medical research, and finance. MATLAB provides: Datatypes and preprocessing capabilities designed for engineering and scientific data.

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Data Analysis – MATLAB & Simulink - MATLAB & Simulink

There are many ways to measure the scale or "dispersion" of a data sample. The MATLAB® functions max, min, std, and var compute some common measures: $dx1 = \max$

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(count)-min(count) dx1
= 1×3 107 136 250. dx2
= std (count) dx2 = 1×3
25.3703 41.4057
68.0281. dx3 = var
(count) dx3 = 1×3 10 3
× 0.6437 1.7144 4.6278.

Data Analysis - MATLAB & Simulink - MathWorks

Data subsetting,
trimming, intersecting,
and spatial resolution

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adjustment. The toolbox includes classes to represent the important types of geospatial data, including "vector" points, lines and polygons, and spatially-referenced images, digital terrain elevation grids, and other gridded data sets. These classes help keep all the information for a given data set together in one

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place, ensuring self-consistency and ease of access.

Data Analysis - MATLAB & Simulink - MathWorks United Kingdom

Data Import and Analysis. Import and export data, including large files; preprocess data, visualize and explore. Access data

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from text files,
spreadsheets, hardware,
other software, or the
web. Explore the data to
identify trends, test
hypotheses, and
estimate uncertainty.
Create customized
algorithms,
visualizations, and
models.

**Data Import and
Analysis - MATLAB &**

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Data Science -

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MATLAB & Simulink - MathWorks

Data Analysis from
Excel File. Learn more
about tabular plot
MATLAB Coder

Data Analysis from Excel File - MATLAB Answers - MATLAB ...

The first step in
analyzing data is to
import it into the
MATLAB ®

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workspace. See

Methods for Importing
Data for information

about importing data
from specific file

formats. Exporting Data
from the Workspace

When you analyze your
data, you might create
new variables or modify
imported variables.

**Importing and
Exporting Data -**

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MATLAB ... -

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Automatically generate code to fit and plot curves and surfaces, or export fits to the workspace for further analysis. Open the Curve Fitting App
MATLAB ® Toolstrip:
On the Apps tab, under Math, Statistics and Optimization , click the app icon.

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Fit curves and surfaces to data - MATLAB - MathWorks

Guest blogger, Kelly Luetkemeyer, who is a senior software developer at MathWorks, returns with an article on displaying fault lines on a geographic globe. Kelly's previous articles included Tracking a

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Hurricane using Web
Map Service ,
Visualizing the Gulf of
Mexico Oil Slick using
Web Map Service and
Using RESTful Web
Service Interface in
R2014b MATLAB

Loren on the Art of MATLAB - MATLAB & Simulink

The MATLAB ® Basic
Fitting UI helps you to

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fit your data, so you can calculate model coefficients and plot the model on top of the data. For an example, see Example: Using Basic Fitting UI. You also can use the MATLAB polyfit and polyval functions to fit your data to a model that is linear in the coefficients.

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Linear Regression - MATLAB & Simulink - MathWorks

Use the data class to store S-parameters, noise figure in decibels, and frequency-dependent, third-order output (OIP3) intercept points.

Store result of circuit object analysis - MATLAB ...

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Data Analytics with
MATLAB. Adam
Filion, MathWorks.

Using Data Analytics to turn large volumes of complex data into actionable information can help you improve engineering design and decision-making processes. However, developing effective analytics and integrating them into business

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systems can be
challenging.

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**Data Analytics with
MATLAB - Video -
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Data subsetting,
trimming, intersecting,
and spatial resolution
adjustment. The toolbox
includes classes to
represent the important
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including "vector" points, lines and polygons, and spatially-referenced images, digital terrain elevation grids, and other gridded data sets. These classes help keep all the information for a given data set together in one place, ensuring self-consistency and ease of access.

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Data Analysis - MATLAB & Simulink - MathWorks ??

The toolbox includes algorithms for continuous wavelet analysis, wavelet coherence, synchrosqueezing, and data-adaptive time-frequency analysis. The toolbox also includes apps and functions for decimated and

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nondecimated discrete
wavelet analysis of
signals and images,
including wavelet
packets and dual-tree
transforms.

Wavelet Toolbox Documentation - MathWorks ??

Data subsetting,
trimming, intersecting,
and spatial resolution
adjustment. The toolbox

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includes classes to represent the important types of geospatial data, including "vector" points, lines and polygons, and spatially-referenced images, digital terrain elevation grids, and other gridded data sets. These classes help keep all the information for a given data set together in one place, ensuring self-

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```
x = 1:100; data = cos(2*  
pi*0.05*x+2*pi*rand) +  
0.5*randn(1,100);  
data(20:20:80) = NaN;  
data(10:20:90) = [-50 40  
30 -45 35]; plot(x,data)
```

Fill Missing Data To
replace NaN values in
the data and visualize
the results, open the
Clean Missing Data
task.

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