

- 1. Matlab : first choice
  - a. Comprehensive capability
- 2. Python : easy to use
- 3. Other programming languages

[https://lib.sustech.edu.cn/page/id-251.html?locale=zh\\_CN](https://lib.sustech.edu.cn/page/id-251.html?locale=zh_CN)

商业数学软件——MATLAB（数学系采购）

MATLAB 是美国MathWorks公司出品的商业数学软件，用于算法开发、数据可视化、数据分析以及数值计算的高级技术计算语言和交互式环境，主要包括MATLAB和Simulink两大部分。数学系已购买Matlab软件全模块功能，服务期延长至2021年12月，下面为更新指南，请参照更新。

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[MATLAB Campus-Wide License更新指南.docx](#)

[matlab.a安装指南.pdf](#)

联系方式：  
如有疑问请联系MATLAB技术支持王工（13911377607），或电话：86-10-5982-7000

数学系龙欢longh@sustech.edu.cn或谭少才tansc@sustech.edu.cn.

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Inference with the trained network

Let's see how well the trained network performs on new data.

augmented = augment(augmented, layers(1), inputData, testData);

predictedLabels = classify(augmented, augmented);

accuracy = mean(predictedLabels == TestData.Labels);

Figure

confusionMat = confusionMat, predictedLabels, ...

TestData.Labels, 'Confusion Matrix', 'columnsHeader', 'Test Data Labels';

text([confusionMat, accuracy], 'accuracy' = '100 \* ' + accuracy, 'fontSize', 14)

Let's take a look at a few example images.

idx = 1;

img = reshape(imageNetData.images, 1);

truesLabel = img.responses;

[predicted, scores] = classify(augmented, img);

idx = (predicted == truesLabel);

imageNet([img, scores, predicted, truesLabel, idx]);

What Is MATLAB?

Millions of Engineers and Scientists Trust MATLAB

MATLAB® combines a desktop environment tuned for iterative analysis and design processes with a programming language that expresses matrix and array mathematics directly. It includes the [Live Editor](#) for creating scripts that combine code, output, and formatted text in an executable notebook.

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[Import data, define variables, and perform calculations using elements](#) of the MATLAB desktop environment, including the Command Window, the Workspace browser, and the Variables editor. [Visualize data using prebuilt plots](#) and customize the visualizations. Explore documentation to find [built-in functions](#), guidance on their syntax, and code examples that demonstrate how to use the functions. Lastly, use the Live Editor to create scripts that combine code, output, and formatted text in an executable notebook that can be shared with others.

Matlab tutorials

mathworks.com/support/learn-with-matlab-tutorials.html

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11:30

[Getting Started with Simulink for Signal Processing](#)

12:31

[Getting Started with Stateflow](#)

12:48