

Working with Interactive Environments Using Google Colab



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Overview

Colab is a Google research project

**Jupyter notebooks hosted on
Google drive**

Share using Google Drive

Code runs on dedicated VM instance

Free and requires minimal setup

Local runtimes can be used too

Interactive plots and widgets

Google Colab

Free, Google drive-based Jupyter notebooks that can be used to develop ML models with minimal setup.

Google Colab



Notebooks stored on Google Drive

- Can use for sharing

Can upload/import existing notebooks

Currently supports Python 2.7 and 3.6

- No support yet for R or Scala

Google Colab



Code runs on dedicated virtual machines

Can use prototype models using GPUs for free

Maximum lifetime enforced by system

Unsuitable for long-running jobs

Local Runtimes



Can connect to local runtime using Jupyter

Executes code on local hardware

Can access local file system

Exercise caution when executing third-party code locally

Demo

Introducing Google Colab

Demo

Using interactive forms

Demo

Working with widgets

Demo

Building a machine learning model

Summary

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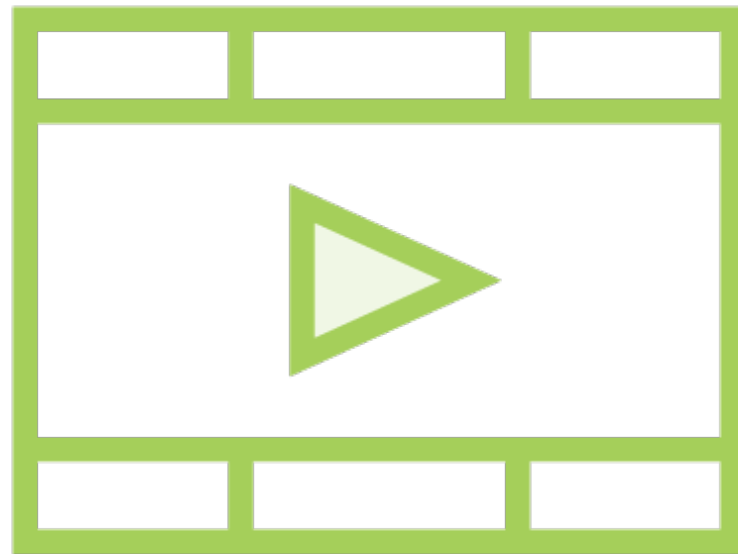
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Related Courses



Data Mining and the Analytics Workflow

Preparing Data for Machine Learning

Designing a Machine Learning Model