

OBJECT TRACKING AND VIDEO SEGMENTATION: SIAMMASK

**ENVIRONMENTAL SETUP AND
GETTING STARTED**



WHAT YOU NEED?

- Github account
- System Requirements:
 - The authors environment: Ubuntu 16.04, Python 3.6, Pytorch 0.4.1, CUDA 9.2, RTX 2080 GPUs
 - Our environment: macOS Catalina v10.15.5, python 3.x, 3.3 GHz Dual-Core Intel Core i7

SETUP

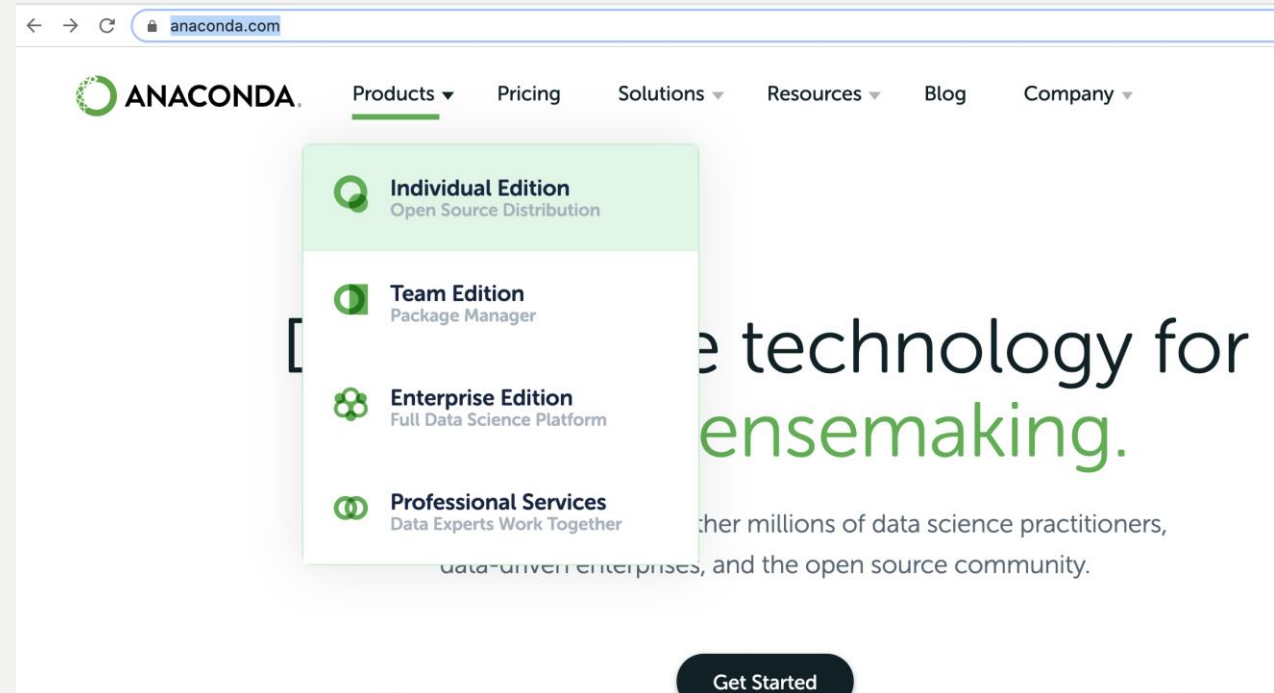
- Get Code
 - Clone the repository
- Setup python environment
 - Get anaconda
 - Install requirements
- Run Demo

GET THE CODE

- Clone the repository:
 - <https://github.com/augmentedstartups/SiamMask>
 - Clone on terminal

SET UP ANACONDA

- Visit <https://www.anaconda.com/>
 - Products -> Individual Edition
 - Download 64-bit Graphical Installer
- Follow on-screen instructions



SET UP PYTHON ENVIRONMENT

- Create environment using anaconda
- Activate environment
- Install requirements
 - cython, torch, matplotlib, scipy, h5py, pandas, tensorboardX, opencv_python, torchvision
- Add project to python path

RUN DEMO

- Move to right directory
- Download data
 - Using wget: `brew install wget`
 - Get brew: `/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"`
- Execute and play around

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