**【声明】还是建议提高个人的资源搜集水平，提倡自行搜罗资源，以下资源仅作大纲**

Ubuntu系统安装：

需要准备一个至少16G的空U盘（若不为空会提示需先进行格式化）

在电脑的某一个盘里预留至少100G空间（可满足初步学习，若想以后完整学习视觉方面的内容建议预留至少150G或200G及以上，若初次预留空间过少后续很可能需要将ubuntu系统卸载重装，各种配置需要从头再来极其麻烦）

<https://blog.csdn.net/qq_43657247/article/details/125254138>

该教程后续附带一些新安装后的一些使用技巧

下载ubuntu镜像时最好选择后缀带LTS的版本->长期保持更新的稳定版本

确认安装的ubuntu版本为22.04

Ps：设置ubuntu用户的个人密码时不建议非常复杂，因为后续基本每步操作都需要输入一次密码

Ubuntu系统安装完成后，你的笔记本就已经成功升级为双系统，每次开机时需要选择要进入ubuntu还是windows系统（默认首选项为ubuntu）

Ubuntu系统常用指令

<https://blog.csdn.net/weixin_46246170/article/details/122865463>

ubuntu查看磁盘空间->常回盘看看，以免内存快溢出了还不知足

<https://blog.csdn.net/sinat_16643223/article/details/116358136>

部分ubuntu指令需要用到root账户（最高权限），以下为获取方法

<https://blog.csdn.net/qq_44721831/article/details/108893248>

Ubuntu系统安装完成后，强烈建议按顺序跟着下面的操作进行相关配置使后续使用更加舒服

Ubuntu系统设置中文

[https://blog.csdn.net/weixin\_45965432/article/details/115446648?ops\_request\_misc=%257B%2522request%255Fid%2522%253A%2522169335807316800182724123%2522%252C%2522scm%2522%253A%252220140713.130102334..%2522%257D&request\_id=169335807316800182724123&biz\_id=0&utm\_medium=distribute.pc\_search\_result.none-task-blog-2~all~top\_positive~default-1-115446648-null-null.142^v93^koosearch\_v1&utm\_term=ubuntu%E8%AE%BE%E7%BD%AE%E4%B8%AD%E6%96%87&spm=1018.2226.3001.4187](https://blog.csdn.net/weixin_45965432/article/details/115446648?ops_request_misc=%257B%2522request%255Fid%2522%253A%2522169335807316800182724123%2522%252C%2522scm%2522%253A%252220140713.130102334..%2522%257D&request_id=169335807316800182724123&biz_id=0&utm_medium=distribute.pc_search_result.none-task-blog-2~all~top_positive~default-1-115446648-null-null.142%5ev93%5ekoosearch_v1&utm_term=ubuntu%E8%AE%BE%E7%BD%AE%E4%B8%AD%E6%96%87&spm=1018.2226.3001.4187)

ubuntu系统安装中文输入法（推荐谷歌）

<https://blog.csdn.net/a805607966/article/details/105874756>

ubuntu安装后启动windows系统基本都会遇到的系统时间错误问题

<https://blog.csdn.net/ZNJIAYOUYA/article/details/121727391>

解决ubuntu系统无法播放mp4的问题

[https://blog.csdn.net/weixin\_44916154/article/details/124401003?ops\_request\_misc=&request\_id=8e8a1355e02f46b1bc9434898974112e&biz\_id=&utm\_medium=distribute.pc\_search\_result.none-task-blog-2~all~koosearch~default-7-124401003-null-null.142^v93^koosearch\_v1&utm\_term=ubuntu%E6%97%A0%E6%B3%95%E6%92%AD%E6%94%BEmp4&spm=1018.2226.3001.4187](https://blog.csdn.net/weixin_44916154/article/details/124401003?ops_request_misc=&request_id=8e8a1355e02f46b1bc9434898974112e&biz_id=&utm_medium=distribute.pc_search_result.none-task-blog-2~all~koosearch~default-7-124401003-null-null.142%5ev93%5ekoosearch_v1&utm_term=ubuntu%E6%97%A0%E6%B3%95%E6%92%AD%E6%94%BEmp4&spm=1018.2226.3001.4187)

需要了解一下ubuntu系统安装软件的方法，与windows大不相同

[https://blog.csdn.net/weixin\_68773927/article/details/126512399?ops\_request\_misc=%257B%2522request%255Fid%2522%253A%2522169335888316800182178073%2522%252C%2522scm%2522%253A%252220140713.130102334..%2522%257D&request\_id=169335888316800182178073&biz\_id=0&utm\_medium=distribute.pc\_search\_result.none-task-blog-2~all~top\_positive~default-1-126512399-null-null.142^v93^koosearch\_v1&utm\_term=ubuntu%E5%AE%89%E8%A3%85%E8%BD%AF%E4%BB%B6&spm=1018.2226.3001.4187](https://blog.csdn.net/weixin_68773927/article/details/126512399?ops_request_misc=%257B%2522request%255Fid%2522%253A%2522169335888316800182178073%2522%252C%2522scm%2522%253A%252220140713.130102334..%2522%257D&request_id=169335888316800182178073&biz_id=0&utm_medium=distribute.pc_search_result.none-task-blog-2~all~top_positive~default-1-126512399-null-null.142%5ev93%5ekoosearch_v1&utm_term=ubuntu%E5%AE%89%E8%A3%85%E8%BD%AF%E4%BB%B6&spm=1018.2226.3001.4187)

ubuntu安装vim以及一些常用操作

<https://blog.csdn.net/u014361280/article/details/128097938?ops_request_misc=&request_id=&biz_id=102&utm_term=ubuntu%E5%AE%89%E8%A3%85vim&utm_medium=distribute.pc_search_result.none-task-blog-2~all~sobaiduweb~default-1-128097938.nonecase&spm=1018.2226.3001.4187>

ubuntu安装cmake

<https://blog.csdn.net/yuanzhoulvpi/article/details/122938078?ops_request_misc=&request_id=&biz_id=102&utm_term=ubuntu%E5%AE%89%E8%A3%85cmake&utm_medium=distribute.pc_search_result.none-task-blog-2~all~sobaiduweb~default-0-122938078.nonecase&spm=1018.2226.3001.4187>

附带的cmakelist相关语法学习

<https://blog.csdn.net/weixin_45677333/article/details/121332641>

\*ubuntu安装eigen3库（可选）

<https://blog.csdn.net/qq_57061492/article/details/126163112>

ubuntu安装Clion 找官方英文官网下载

<https://blog.csdn.net/caiqidong321/article/details/130126200>

ps：切记到安装完成后弹出激活窗口这步操作时停一下，按下面流程走可免费使用完整版Clion

<https://wwp.lanzout.com/b03j3ofvg> 密码:bi3f

【2017-2021版本激活以后2099年到期，2022版本激活后显示到明年六月

目前只适用于2023版本及更早的】

**-**该资源由21级王学长友情提供**-**

建议把网盘里的文件解压到clion所在文件夹，按照里面的教程一步一步操作

Ubuntu安装Git以及入门教程（后续团队开发会用到）

[https://blog.csdn.net/qq\_39196431/article/details/123797279?ops\_request\_misc=%257B%2522request%255Fid%2522%253A%2522169341016216800211518723%2522%252C%2522scm%2522%253A%252220140713.130102334..%2522%257D&request\_id=169341016216800211518723&biz\_id=0&utm\_medium=distribute.pc\_search\_result.none-task-blog-2~all~top\_click~default-2-123797279-null-null.142^v93^koosearch\_v1&utm\_term=ubuntu%E5%AE%89%E8%A3%85git&spm=1018.2226.3001.4187](https://blog.csdn.net/qq_39196431/article/details/123797279?ops_request_misc=%257B%2522request%255Fid%2522%253A%2522169341016216800211518723%2522%252C%2522scm%2522%253A%252220140713.130102334..%2522%257D&request_id=169341016216800211518723&biz_id=0&utm_medium=distribute.pc_search_result.none-task-blog-2~all~top_click~default-2-123797279-null-null.142%5ev93%5ekoosearch_v1&utm_term=ubuntu%E5%AE%89%E8%A3%85git&spm=1018.2226.3001.4187)

个人还留有往届21级宋学长编写的《开发者小白的git入门指南.pdf》，内容简单易懂好上手，有需要者自行索取

Ubuntu安装opencv

<https://blog.csdn.net/weixin_44698673/article/details/127082446>

到这，你的ubuntu系统基本就初步完善了，后续可以根据自己的需求补充配置，下面就可以进行相关内容的学习了

推荐边看教程边自己码一码试试，个别步骤有问题可以单独拎出来搜索

Opencv c++版入门教程

<https://blog.csdn.net/Star_ID/article/details/122656593>

opencv形态学操作

<https://blog.csdn.net/sinat_29957455/article/details/121736526>

解决ubuntu无法正常关机/重启问题：（安装显卡驱动）

安装显卡驱动前最好找学长先看一下

(以空格为分隔，每一块都是一条完整代码，直接复制粘贴即可)

wget <https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64/cuda-keyring_1.1-1_all.deb>

sudo dpkg -i cuda-keyring\_1.1-1\_all.deb

sudo apt-get update

sudo apt-get -y install cuda-toolkit-12-3

sudo apt-get install -y nvidia-kernel-open-545

sudo apt-get install -y cuda-drivers-545