

学院路小学小太阳编程兴趣班

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Part I - 学术科研以及软件工程工具推荐

学术科研

论文检索

1. Google Scholar - <https://scholar.google.com/>

The screenshot shows a Google Scholar search results page for the query "Style Transfer". The search bar at the top contains the term "Style Transfer". Below the search bar, there are several filters: "Any time", "Since 2021", "Since 2020", "Since 2017", "Custom range", "Sort by relevance", "Sort by date", "include patents", "include citations", and "Create alert". The main search results area displays three academic papers with their titles, authors, and publication details. Each result includes a link to the full text (PDF) and a "Cited by" count. Below the search results, there is a section titled "Related searches" with suggestions like "neural style transfer", "image style transfer", "style transfer deep learning", etc.

综合汇总型, 想要的都有, 用过都说好
某匿名用户评价:

1. "敏感肌也可以用"
2. "找不到的肯定是'你的问题'"
3. "不像百度学术, 我只会心疼xx"

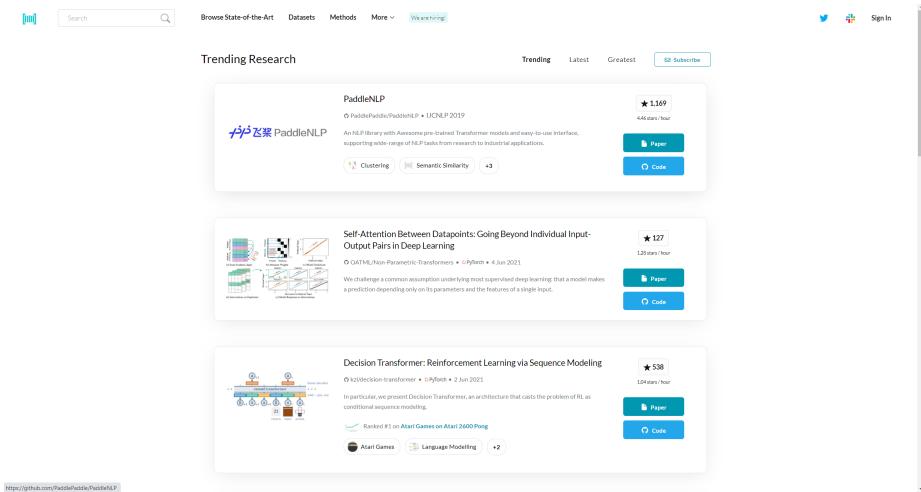
2. Research Gate - <https://www.researchgate.net/>

The screenshot shows the homepage of ResearchGate. At the top, there is a navigation bar with "ResearchGate" on the left and "Log In" and "Join for free" on the right. Below the navigation bar is a large circular graphic featuring icons related to science and research, such as a DNA helix, laboratory glassware, and a satellite. To the right of the graphic, there is a "Discover research" section with the text "Access over 135 million publication pages and stay up to date with what's happening in your field." Below this is a search bar with the placeholder "Q. Search publications". Further down the page, there is a "Connect with your scientific community" section with the text "Share your research, collaborate with your peers, and get the support you need to advance your career." To the right of this section is a "VISIT TOPIC PAGES" section with categories: Engineering, Mathematics, Biology, Computer Science, Climate Change, Medicine, Physics, Social Science, Astrophysics, and Chemistry.

综合性的科研论坛+资料库

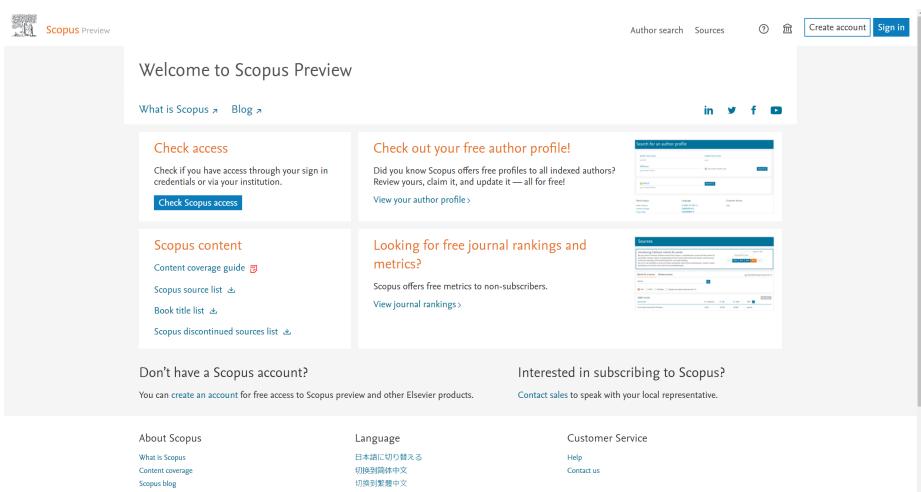
1. 提供论文以及书籍的基本信息和获取途径
2. 与研究者交流与讨论
3. 论文推荐系统
4. 前沿研究进展

3. Paper with Code - <https://www.paperwithcode.com/>



汇总网站, 把某些领域(主要是ML方向)的论文和代码汇总起来

4. Scopus



同行评议文献数据库, 国外认可度更高.

现在看看也就用下论文的引用关系查询, 方便收集论文后面的参考文献

5. arXiv.org

非正式的电子印刷文档镜像, 里面的文献有些并未发表

Tips:

个人也可以在上面随便发, 但是不建议, 因为如果写的不好可能会影响你的学术评价,

而且有些期刊要求文章不能在上面发表过

6. Engineer Village

都知道了, 就不说了:)

7. IEEE

都知道了,就不说了:)

8. Web of Science

都知道了,就不说了:)

参考资料检索

1. Library Genesis - <http://libgen.rs/>

The screenshot shows the homepage of Library Genesis. At the top, there is a navigation bar with links for RU, FORUM, DOWNLOAD, UPLOAD, LAST, OTHERS, and TOPICS. Below the navigation bar, the title "Library Genesis" is displayed in red. A banner at the top of the page encourages users to update their bookmarks to libgen.rs, libgen.is, and libgen.st. It also provides links to a guide to effective catalog searching, Libgen Desktop application, and Letter of Solidarity. The main search form has a search input field and a "Search!" button. Below the search form, there are several search filters: "Search in:" with options for LibGen (Sci-Tech), Scientific articles, Fiction, Comics, Standards, and Magazines; "LibGen Search options:" with "Download type:" set to "Resumed dl with original filename", "View results:" set to "Simple", "Results per page" set to 25, "Search with mask (word)": "No", "Search in fields" set to "The column set default", and various other search fields like Title, Author(s), Series, Publisher, Year, ISBN, Language, MD5, Tags, and Extension.

未印刷的电子版本,有点像arXiv

检索范围:

1. 参考书, 文章?
2. 中文文献也有
3. 甚至有小说

2. Allitebooks

3. ZLibrary - <https://1lib.us/> <https://z-lib.org/>

The screenshot shows the homepage of ZLibrary. The logo "zlibrary" is prominently displayed at the top, with the text "Part of Z-Library project. The world's largest ebook library" below it. A yellow banner at the top encourages users to share their booklists with the community. The main search form includes "General Search" and "Fulltext Search" buttons, a search input field for "Search for title, author, ISBN, publisher, md5.", and a "Search" button. Below the search form, there is a link to "Search options".

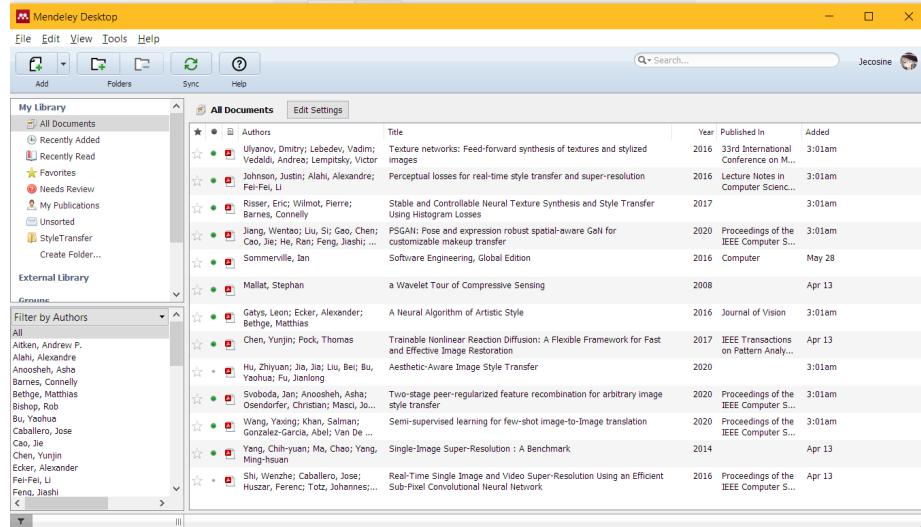
检索范围 (外文):

1. 文献, 参考书
2. 小说之类的似乎也有

4. 鸠摩电子书 - <https://www.jiumodiary.com/>

阅读与文献管理工具

1. Mendeley - <https://www.mendeley.com/>



提供了浏览器插件, 下载文献

2. Zotero - <https://www.zotero.org/>

开源

3. Citavi - <https://citavi.com/>

免费版限制单个文档内100个参考文献

4. endnote - <https://endnote.com/>

老牌, 全面, UI好康, 就是要钱

Latex

*LATEX*是广为人知的基于*TEX*文档排版系统, 主要是理工科方向的用的多, 通过代码的方式定制你的各种样式, 控制论文的排版等, 最重要的是方便管理文献.

Overleaf

在线的latex文档编辑与管理平台

1. 快速编译
2. 众多模板, 大部分大学/期刊/会议的论文标准模板都有在上面.

TexStudio

1. 官方工具, 功能全面
2. 界面丑, 10年前的风格

Visual Studio Code

1. 通过插件Latex Workshop来实现对Latex编辑的支持
2. 提供默认工作流, 也可以自定义(当使用某些宏包的时候也许需要修改编译参数)
3. 界面美观好看
4. 界面美观好看
5. 界面美观好看

Jetbrains?

1. 先把Markdown支持做好再说吧, 球球子

知识库管理

1. Obsidian

1. 标签化管理
2. 开放的插件社区
3. 双向引用
4. 美观的界面风格, 斯巴拉西

2. 静态博客生成器也不错

3. 语雀等...

没用过, 听说不戳

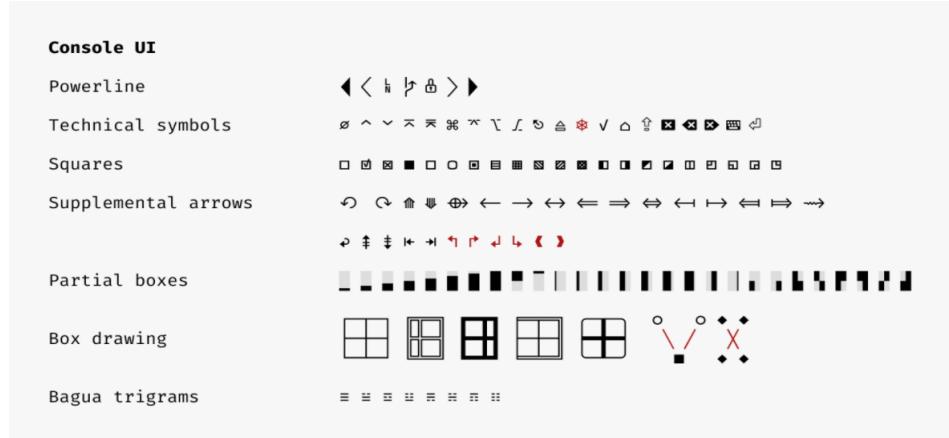
软件工程

字体

Fira Code

开源的免费Monospace字体, 支持连字(Ligature)

link: <https://github.com/tonsky/FiraCode>



安装下载之后，在IDE里面选择字体就行了，记得打开Ligature选项

其他推荐：

Cascadia Code

Windows Terminal Powerline

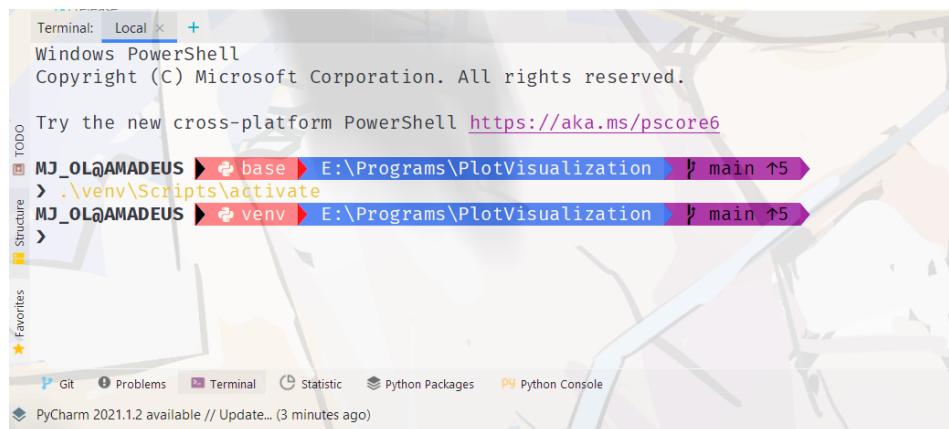
git目录下的效果

```

MJ_OlAMADEUS E:\Programs\PlotVisualization > main ↑ 1 → 0 -16 ↗ + 0 -9 -4 ↘
> git add .
> git commit -m "will be replaced by CRLF in docs/Makefile.
The file will have its original line endings in your working directory"
MJ_OlAMADEUS E:\Programs\PlotVisualization > main ↑ 4 +16 -15 -13 ↗
> git push origin master:main
[06:00]
main d5d908c FINISH
04 files changed, 698 insertions(+), 926 deletions(-)
delete mode 100000 created_db.py
renamed data/main.db (81K)
delete mode 100000 created_db.py
renamed data/main.db (81K)
makefile docs/docs/Makefile (100K)
renamed (pvlib/docs → docs)/Makefile.bat (100K)
renamed (pvlib/docs → docs)/source/conf.py (80K)
renamed (pvlib/docs → docs)/source/index.rst (100K)
create mode 100000 docs/source/modules.rst
rename pvlib/docs/source/db.rst => docs/source/pvlib.db.rst (53K)
create mode 100000 docs/source/pvlib.model.rst
rename pvlib/docs/source/api.rst => docs/source/pvlib.log.rst (53K)
create mode 100000 docs/source/pvlib.model.Config.rst
create mode 100000 docs/source/pvlib.rst
create mode 100000 docs/source/pvlib.rst
create mode 100000 docs/source/pvlib.server.apl.rst
renamed plots/plots/plots/plots/plots/plots/plots.rst
create mode 100000 docs/source/pvlib.server.local.rst
create mode 100000 docs/source/pvlib.server.rst
renamed plots/plots/plots/plots/plots/plots/plots.rst
create mode 100000 docs/source/pvlib.utils.dtuonly.rst
rename pvlib/docs/source/server.rst => docs/source/pvlib.utils.rst (56K)
renamed plots/plots/plots/plots/plots/plots/plots.rst
create mode 100000 plots/example/params.dat
create mode 100000 plots/example/plot.png
create mode 100000 plots/example/plot.py
renamed plots/plot_a/plot_a.py (77K)
create mode 100000 plots/plot_b/plot_b/a.txt
renamed plots/plot_b/plot_b/b.txt (79K)
renamed plots/plot_b/plot_b.py (76K)
create mode 100000 pvlib/docs/source/cx/cx.create_db.rst
deleted mode 100000 pvlib/docs/source/e.rst
delete mode 100000 pvlib/docs/source/entities.rst
delete mode 100000 pvlib/docs/source/index.rst
deleted mode 100000 pvlib/docs/source/modules.rst
delete mode 100000 pvlib/docs/source/server.database.rst
renamed plots/plots/plots/plots/plots/plots/plots.rst
delete mode 100000 pvlib/docs/source/utils.rst
[06:00]
MJ_OlAMADEUS E:\Programs\PlotVisualization > main ↑ 5
> git push origin master:main
[06:00]

```

PyCharm中会显示python使用的环境



Typora主题推荐

Markdown 渲染进化的本质 -- HTML

Theme 的本质 -- CSS 或其变态发育版(如scss, less)

例子:

This background is linear gradient

代码:

```
<div style="border-radius:1em;  
padding-left: 2em!important;  
color:white;  
line-height: 3em;  
height: 3em;  
background-image:linear-gradient(to right, #dd2244, #9999ee)">  
    This background is linear gradient  
</div>
```

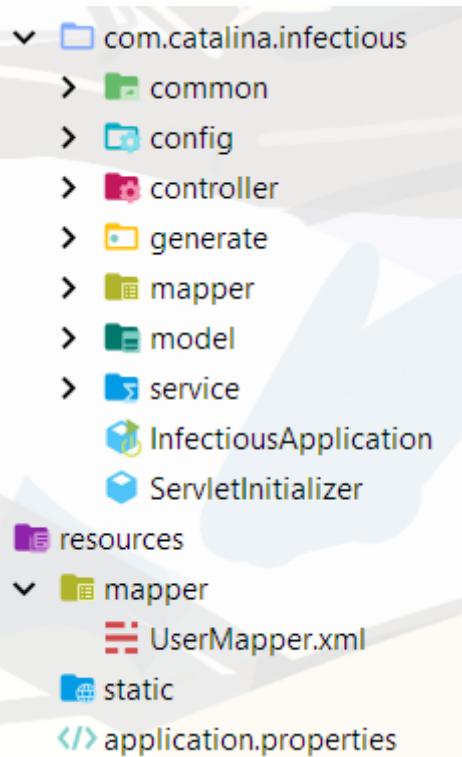
推荐:

1. Blubook
2. Vue

根本原因 - 字体:

1. Noto Sans SC 无衬线
2. Noto Serif SC 有衬线

Atom Icon Plugin



Github Readme

Jecosine / README.md

Stats Card

Total Stars:	27
Total Commits (2021):	835
Total PRs:	9
Total Issues:	17
Contributed to:	3

Code times

Wakatime Stats

- Python - 22 hrs 55 mins
- TeX - 6 hrs 31 mins
- XML - 2 hrs 21 mins
- Other - 1 hr 52 mins
- JSON - 51 mins
- JavaScript - 39 mins
- Git Config - 23 mins
- Docker - 15 mins
- SQL - 2 mins
- Java - 7 hrs 8 mins
- TypeScript - 3 hrs 30 mins
- Vue.js - 2 hrs 12 mins
- Markdown - 1 hr 2 mins
- Properties - 50 mins
- HTML - 28 mins
- reStructuredText - 16 mins
- Text - 4 mins
- Makefile - 2 mins

创建一个以自己的用户名命名的仓库, 新建README.md, 其中的内容会渲染在你首页.

其中Status Card的效果是部署了一个

<https://github.com/anuraghazra/github-readme-stats>

提供了一个返回SVG图片的API, 访客访问首页的时候会调用这个API获取当前用户的状态.可以定制内容显示方式和主题等, 但是样式有限.

魔改后的版本:

<https://github.com/Jecosine/github-readme-stats>

私货: 欢迎Follow和各种Star <https://github.com/Jecosine>

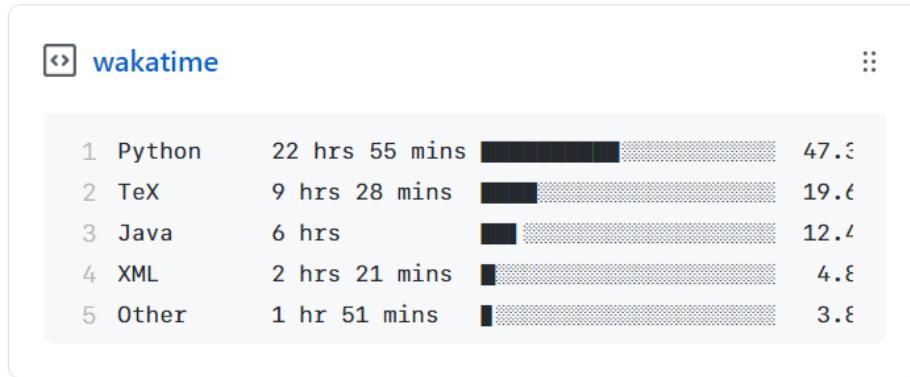
Github Gist

可以理解为代码片段, 也可以Pin在首页, 通过授权某些项目使用Github Action自动更新

下面是一个小样例:

<https://github.com/matchai/waka-box>

部署后, 默认每天0点(UTC)更新一次状态 (当然更新时间可以自定义, 修改Github Action的配置即可)



Github1s

打开一个仓库, 在url里面的github后面加上1s, 就可以快速地打开一个在线版的'vscode', 用于阅读代码

如

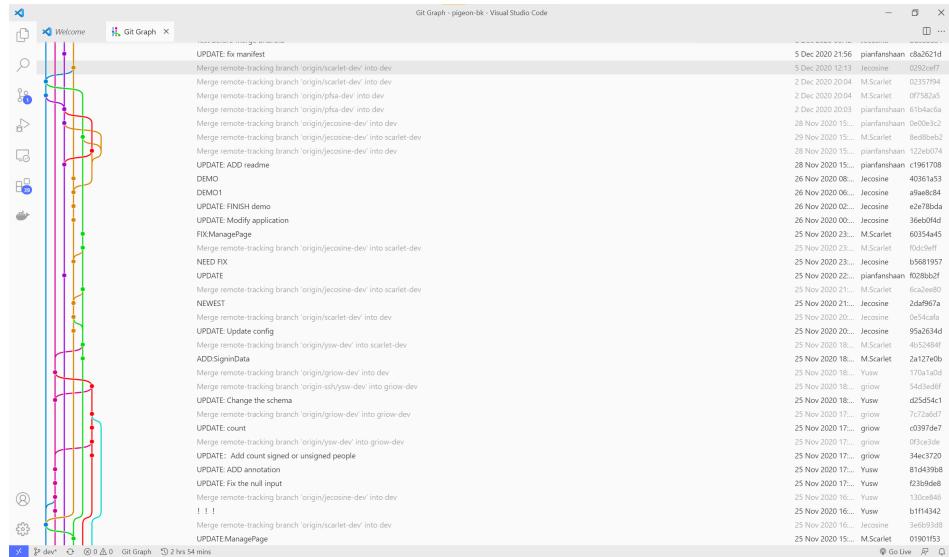
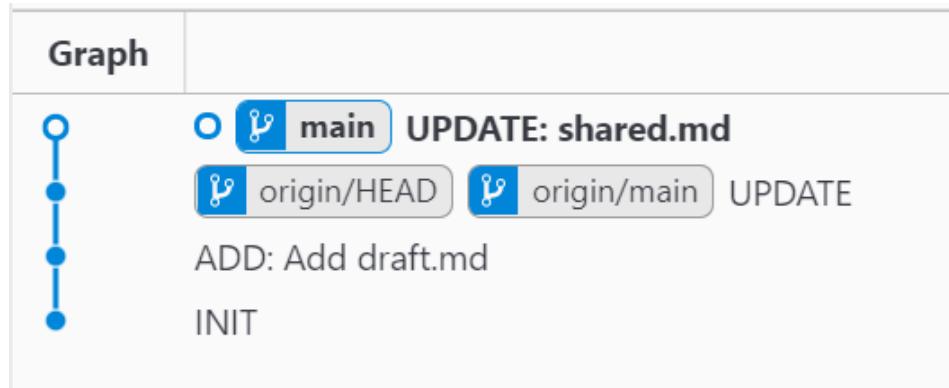
<https://github.com/Jecosine/Jecosine>

=>

<https://github1s.com/Jecosine/Jecosine>

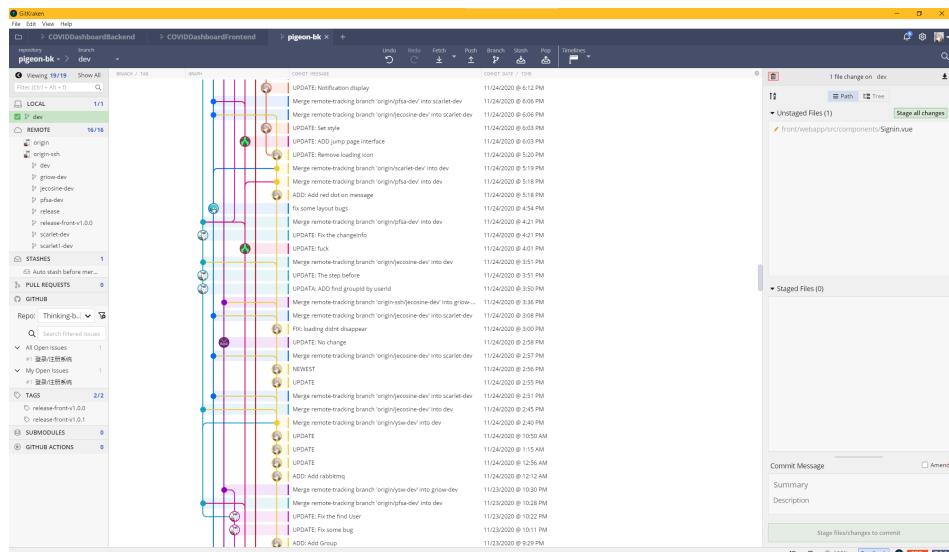
Git

版本管理系统(Version Control System)



图形化管理:

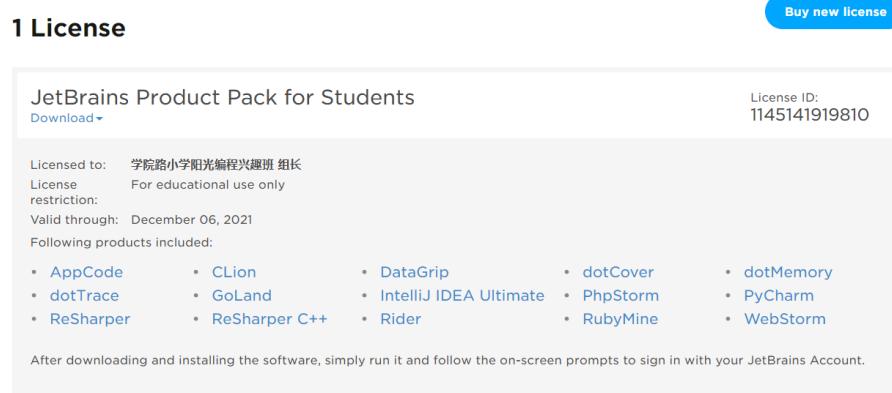
1. GitKraken - 有学生优惠, 也可以直接破解



1. SourceTree - 开源免费 (但是在windows下界面不太好康)

学生福利

1. Github Education
2. Jetbrains



其中, DataGrip个人认为比Navicat好用, 而且界面好看(

Visual Studio Code Extensions

1. Themes:
 - a. One Dark Pro
 - b. Material
 - c. Dracula
 - d. Office Theme (~~Just for fun~~)
2. Markdown All in One + Markdown Preview enhanced
3. Office Viewer - 查看Word, PPT, Excel, PDF, Markdown 等, 部分可以编辑, 支持 Markdown的可视化编辑(~~但是个人觉得没有Typora好康, 故弃之~~)
4. indent-rainbow - 让你的缩进像彩虹一样五颜六色, 兴趣班小朋友狂喜 Jetbrains 中有类似插件
5. Rainbow Brackets - 让你的括号对五颜六色, 便于区分 Jetbrains中有同名插件
6. jumpy - 快速光标移动 (AceJump in Jetbrains Plugin)

Part II - 兴趣班小朋友们最喜欢的编程相关的游 戏

游戏是儿童最正当的行为，玩具是儿童的天使

--鲁迅

GLADIABOTS - AI Combat Arena (角斗机甲 - AI竞技场)



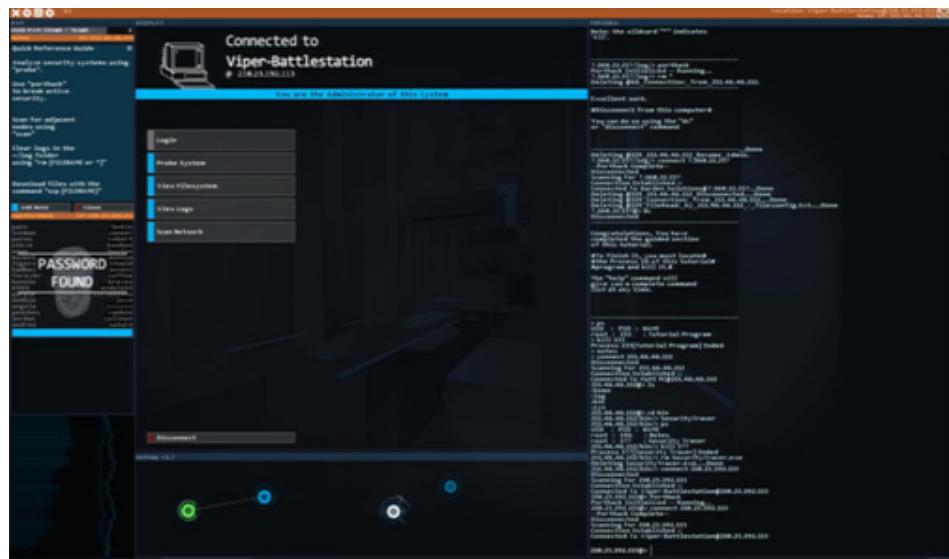
介绍

是一款机器人竞技题材的策略游戏，为你的机器人战队编制AI，让他们到竞技场中拼杀。不断改进、优化、反复打磨…或许你就能完爆对手并从在线的好友组中脱颖而出，打造一支所向披靡的钢铁之师！

游戏特色

1. 亲手制作AI，检阅机器人在竞技场中的表现
2. 不断优化调整AI，直到战胜所有对手！
3. 简洁却强力的AI编程系统，拥有近百种参数可供选择，百万种可能结果(无需编程经验即可开始！)
4. 创造并自定义你的机器人战队

Hacknet



介绍

游戏中体验黑客攻防, Linux指令学习

游戏特色

1. 真实的骇入
2. 基于真实的UNIX指令, Hacknet将重点放在真实的骇入过程, 而不是追求炫酷的好莱坞式黑客。
3. 通过拟真化的骇入过程, 让玩家们仿佛置身骇入现场, 体验打破防火墙时几近真实的感受。

MHRD (微硬公司)



介绍

玩家就是一名集成电路工程师, 我们负责的工作是设计集成电路芯片。从最简单的与非门开始, 到计数器、存储器, 最终目标是一个16bit的CPU。

Part III - 酱油の妙妙工具

Convertio

链接: <https://convertio.co/zh/>

功能:

1. ?
2. ?

Tampermonkey 插件

脚本推荐:

1. ?
2. ?
3. ?