MINI PROJECT

(SESSION-2020-2021)

Image Text Extractor

Report

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Institute of Engineering & Technology

**Team Members**

Samarth Kulshrestha (181500610)

Aman Jadon (181500071)

Aman Gulwani (181500069)

Abhishek Sharma (181500026)

Abhishek Bhardwaj (181500014)

**Supervised By**

**MRS. HARVINDER KAUR**

**TECHNICAL TRAINER**

**Department of Computer Engineering & Applications**

**Declaration**

I hereby declare that the work which is being presented in the Mini Project-II“**Image-Text-Extractor**”, in partial fulfillment of the requirements for Mini project-II Lab is an authentic record of my own work carried under the supervision of **Mrs. Harvinder Kaur, Technical Trainer.**

**Samarth Kulshrestha**

**Aman Jadon**

**Aman Gulwani**

Abhishek Bhardwaj

Abhishek sharma

# **Certificate**

This is to certify that the project entitled “Image-Text-Extractor” carried out in Mini Project – II Lab is a bonafide work done by **Samarth Kulshrestha(181500611), Aman Jadon(181500071), Aman Gulwani (181500069)** and is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

**Signature of Supervisor:**

**Name of Supervisor: Mrs. Harvinder Kaur**

**Date: 20/04/2020**

**Samarth Kulshrestha**

**Aman Jadon**

**Aman Gulwani**

Abhishek Bhardwaj

Abhishek sharma

# **Acknowledgement**

It gives us a great sense of pleasure to present the report of the B. Tech Mini Project - II undertaken during B. Tech. Third Year. This project in itself is an acknowledgement to the inspiration, drive and technical assistance contributed to it by many individuals. This project would never have seen the light of the day without the help and guidance that we have received.

Our heartiest thanks to Dr. (Prof). Anand Singh Jalal, Head of Dept., Department of CEA for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal.

We owe special debt of gratitude to Mrs. Harvinder Kaur ma’am, Technical Trainer, for her constant support and guidance throughout the course of our work. Her sincerity, thoroughness and perseverance have been a constant source of inspiration for us. She has showered us with all her extensively experienced ideas and insightful comments at virtually all stages of the project & has also taught us about the latest industry-oriented technologies.

We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and cooperation during the development of our project. Last but not the least, we acknowledge our friends for their contribution in the completion of the project.

Samarth Kulshrestha

Aman Jadon

Aman Gulwani

Abhishek Bhardwaj

Abhishek sharma

# **Abstract**

In this new era,where tremendous information is available on the internet,it is most important to provide the improved mechanism to extract the information quickly and most efficiently . It is very difficult for human beings to manually extract the text of large documents . There is plenty of text material available on the internet. So there is a problem of searching for relevant documents from the number of documents available, and absorbing relevant information from it.In order to solve the above two problems, the PDF’s text gathering is very much necessary.

The purpose of Image-Text-Extractor is spanning multiple lines, removing the hyphens, and combining the individual parts to form a complete word. The document contains the characters in the shadowed or bold words here shadow detection algorithm identifies and removes redundant instances of text to avoid excess text extraction. Image-Text-Extractor basically aims to reduce the burden of the hard copy documents such as Notes, Books, Important documents etc. It is also helpful for Invigilator in exams containing one-word answers by scanning the digital answer sheets of students.

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# **Introduction**

This project is based on the Image-Text-Extraction is completely web application which basically aims to reduce the burden of hard copy documents such as Notes, Books, Important documents etc. by scanning the text from the digital documents and creating a seperate file for particular scanned document.

**Objective**

This project aims at developing a web application that extracts the text from the digital Image and converts it into the file. It also extracts the text of some other languages like Bengali, Arabic, Latin, Cyrillic, Devanagari and many more languages.

**Definition**

**Image-Text-Extractor**

Using this website, people can reduce the burden of carrying hard copy documents such as Notes, Books, Important documents etc to their learning or work places. This web application provides aid to people from around the country.

**Website**

A **website** (also written as a web **site**) is a collection of web pages and related content that is identified by a common domain name and published on at least one web server. Notable examples are google.com, yahoo.com etc. All publicly accessible websites collectively constitute the World Wide Web. There are also private websites that can only be accessed on a private network, such as a company's internal website for its employees.

Websites are typically dedicated to a particular topic or purpose, such as news, education, commerce, entertainment, or social networking. Hyperlinking between web pages guides the navigation of the site, which often starts with a home page.

A dynamic website is one that changes or customizes itself frequently and automatically. Server-side dynamic pages are generated "on the fly" by computer code that produces the HTML (CSS are responsible for appearance and thus, are static files). There are a wide range of software systems, such as CGI and Java Servlets and Java Server Pages (JSP), Active Server Pages and ColdFusion (CFML) that are available to generate dynamic systems and dynamic sites. Various web application frameworks and web template systems are available for general-use programming languages like Perl, PHP, Python and Ruby to make it faster and easier to create complex dynamic websites.

**Web page**

A **web page** (or **webpage**) is a specific collection of information provided by a website and displayed to a user in a web browser. A website typically consists of many web pages linked together in a coherent fashion. The name "web page" is a metaphor of paper pages, bound together into a book. The core element of a web page is one or more text files written in the Hypertext Markup Language (HTML). Many web pages also make use of JavaScript code for dynamic behavior and Cascading Style Sheets (CSS) code for presentation semantics. Images, videos and other multimedia files are also often embedded in web pages. Each web page is identified by a distinct Uniform Resource Locator (URL). When the user inputs a URL into their browser, that page's elements are downloaded from web servers. The browser then transforms all of the elements into an interactive visual representation on the user's device.

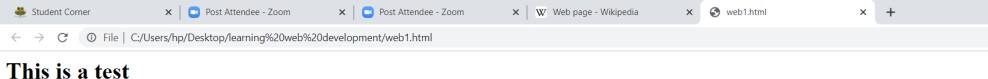


Fig. 1(A simplest webpage)

**Developers**

A **web developer** is a programmer who specializes in, or is specifically engaged in, the development of World Wide Web applications using a client-server model. The applications typically use HTML, CSS and JavaScript in the client, PHP, ASP.NET, (C#), Python or Java on the server, and http for communications between client and server. A web content management system is often used to develop and maintain web applications. Web developers are found working in various types of organizations, including large corporations and governments, small and medium- sized companies, or alone as freelancers. Some web developers work for one organization as a permanent full-time employee, while others may work as independent consultants, or as contractors for an agency or at home personal use.

# **Tools and techniques understanding during the Project**

## **Python**

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

## **Python Libraries**

Python Libraries are a set of useful functions that eliminate the need for writing codes from scratch. There are over 137,000 python libraries present today. Python libraries play a vital role in developing machine learning, data science, data visualization, image and data manipulation applications and more.

## **Data Science**

Data science is nothing but a blend of mathematics, good business decisions and tools, algorithm and machine learning used to bring out knowledge and insights from both structured and unstructured data. With data becoming the fastest and largest growing commodity companies are in dire need for data analysts making data analysis one of the top, fastest growing careers. Data analysis helps decode hidden patterns and insights from raw data helping companies in faster and better decision-making processes.

## **Command shell Commands**

A shell is a computer program that presents a command line interface which allows you to control your computer using commands entered with a keyboard instead of controlling graphical user interfaces (GUIs) with a mouse/keyboard combination. The shell makes your work less error-prone.

## **Visual Studio**

Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works both as a source-level debugger and a machine-level debugger. Other built-in tools include a code profiler, forms designer for building GUI applications, web designer, class designer, and database schema designer. It accepts plug-ins that enhance the functionality at almost every level—including adding support for source control systems (like Subversion and Git) and adding new tool sets like editors and visual designers for domain-specific languages or toolsets for other aspects of the software development lifecycle (like the Team Foundation Server client: Team Explorer).

Visual Studio supports 36 different programming languages and allows the code editor and debugger to support (to varying degrees) nearly any programming language, provided a language-specific service exists. Built-in languages include C,[6] C++, C++/CLI, Visual Basic .NET, C#, F#,JavaScript, TypeScript, XML, XSLT, HTML, and CSS. Support for other languages such as Python,Ruby, Node.js, and M among others is available via plug-ins. Java (and J#) were supported in the past.

# **Hardware and software requirements**

## **Hardware Requirements**

* Processor : intel i5
* Operating System : Windows 10
* RAM : 8 GB
* Hardware Devices : Computer System
* Hard disk : 256 GB Hardware requirements

## **Technologies Used**

* Technology Implemented : Python and its libraries
* Language Used : Python

## **Software Requirements**

* IDE Used : VSCode, Anaconda

# **Methodology**

**We have divided this project in three modules are as follows:**

* **Planning** : In these modules we will be taking all the points and ideas for making and designing the project in a better way. What Implementations and functionality are to be done.
* **Plotting** : In this module we will be plotting all the ideas and implementations and also training the back-end of this project for accurate and efficient output.
* **User Interface** : In this, we will be focusing on the user interface to presentation of the input and output data to the user.

# **Explanation & Future Scope of Project**

## **Explanation**

This project is based on the Image-Text-Extraction web applications which scan and recognize the characters of digital images and convert it into text files.

**This project recognize the following points :**

* **Dehyphenation:** This detects hyphenated words which span multiple lines, removes the hyphen, and combines the individual parts to form a complete word. This is important to ensure that searches for the full word are successful although hyphenated parts are present in the document. Dashes (different from hyphens) are treated separately since they must not be removed.
* **Shadow and Artificial text detection:** Digital documents often contain shadowed text where the shadow effect is achieved by placing the same text multiply on the page, using a small offset between the instances of text. Similarly, bold text is often simulated by overprinting the same text. As a result, the document contains the characters in the shadowed or bold word more than once. TET’s patented shadow detection algorithm identifies and removes redundant instances of text to avoid excess text extraction. While extra instances of a word still result in a search engine hit, no more hits would be found if the text is duplicated character by character as in the example.
* **Accented characters:** In many languages accents and other diacritical marks are placed close to other characters to form combined characters. Some typesetting programs, e.g. notably TeX, emit two separate characters (base character and accent) to create a combined character. For example, to create the character ä first the letter a is placed on the page, and then the dieresis character is placed on top of it. This project detects this situation and combines both characters to form the appropriate composite character.

|  |
| --- |
|  |

* **Bidirectional text with Arabic:** Text in the Arabic and Hebrew script runs from right to left. Since it often contains left-to-right inserts such as numbers or names in Western languages, text must be interpreted in both directions - hence the term »bidirectional«. Arabic poses additional challenges since the characters are used in up to four different contextual forms. These shaped forms of characters must be normalized to the corresponding standard (isolated) form.

## **Conclusion**

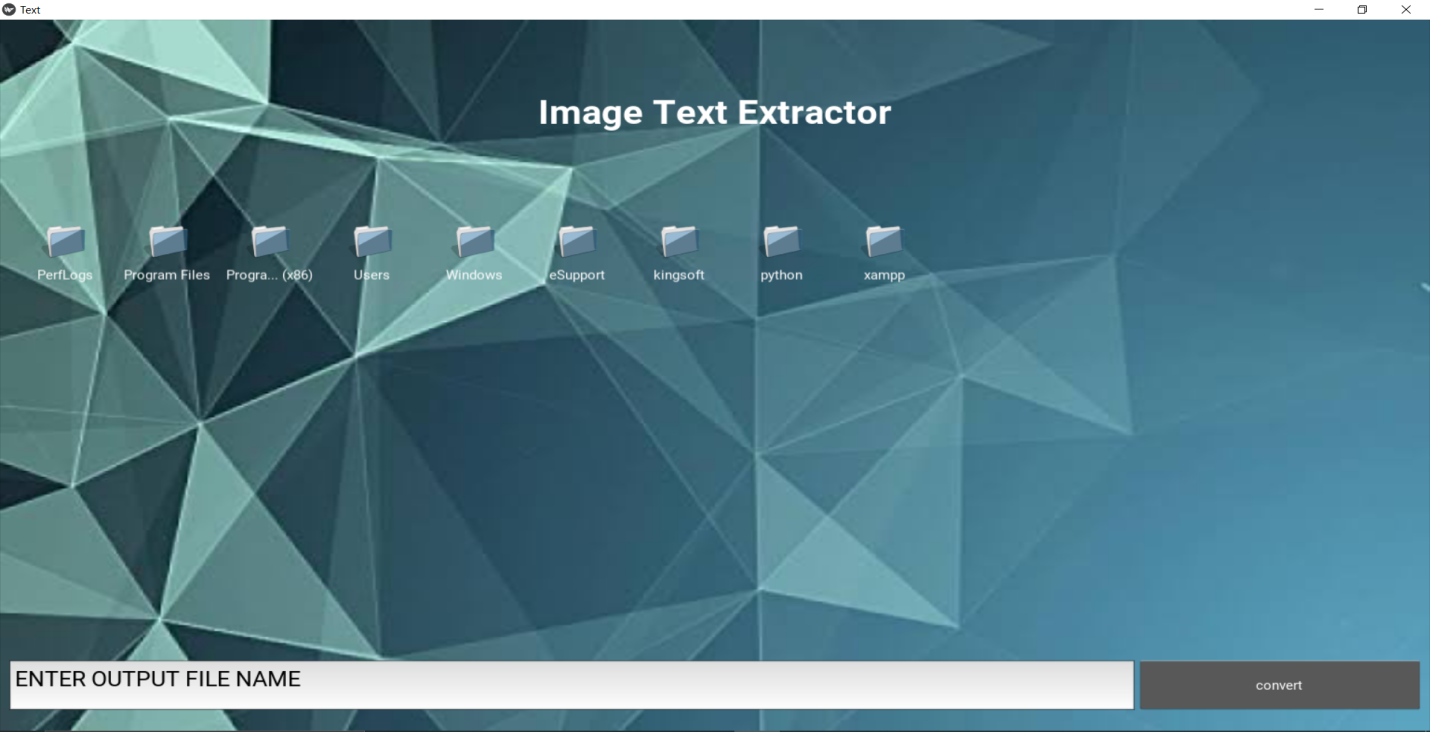
As a conclusion, we can say that this project was a great experience.We acquired deeper knowledge concerning our technical skills but we also personally benefited. Indeed, We grew more independent in work and also in everyday life. We realized that we could do more things than we thought like learning new things by yourself. There are huge opportunities available for the students who want to work in this field. Many private and public organizations hire web developers for their online work and web development. With the rapid advent of the online industry, the demand of web development professionals is increasing and this has created a huge job opportunity for the aspirants in the upcoming days. Also an experienced person in this field can also work as a freelancer, there are many online companies which provide online projects to the individuals.

## **Future Scope**

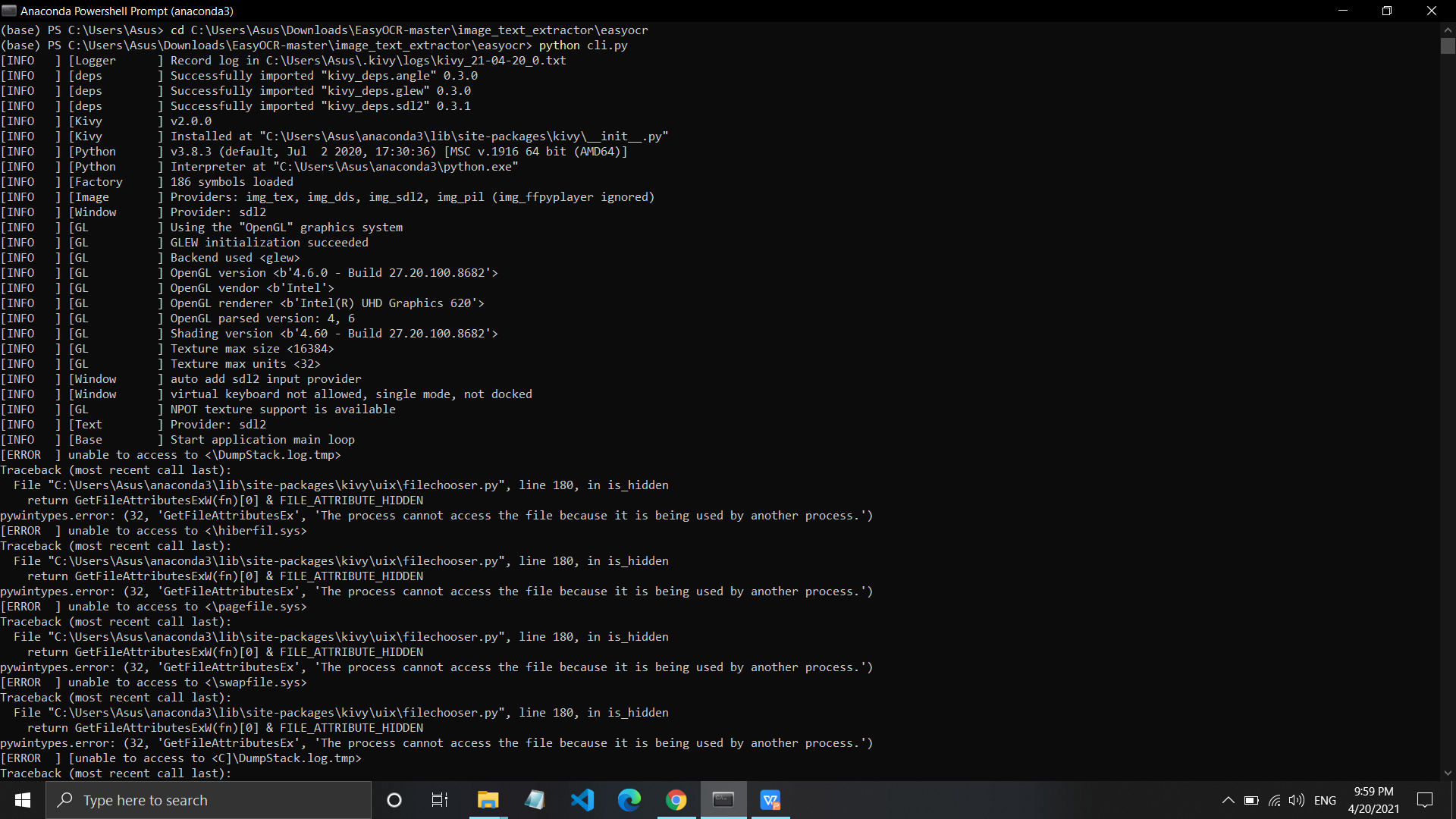
* This project basically aims to reduce the burden of the hard copy documents such as Notes, Books, Important documents etc.
* It is also helpful for Invigilators in exams containing one-word answers by scanning the digital answer sheets of students.
* Cheaper than paying someone to manually enter large amounts of text.
* Much faster than someone manually entering large amounts of text.

# **Interface and Source code**

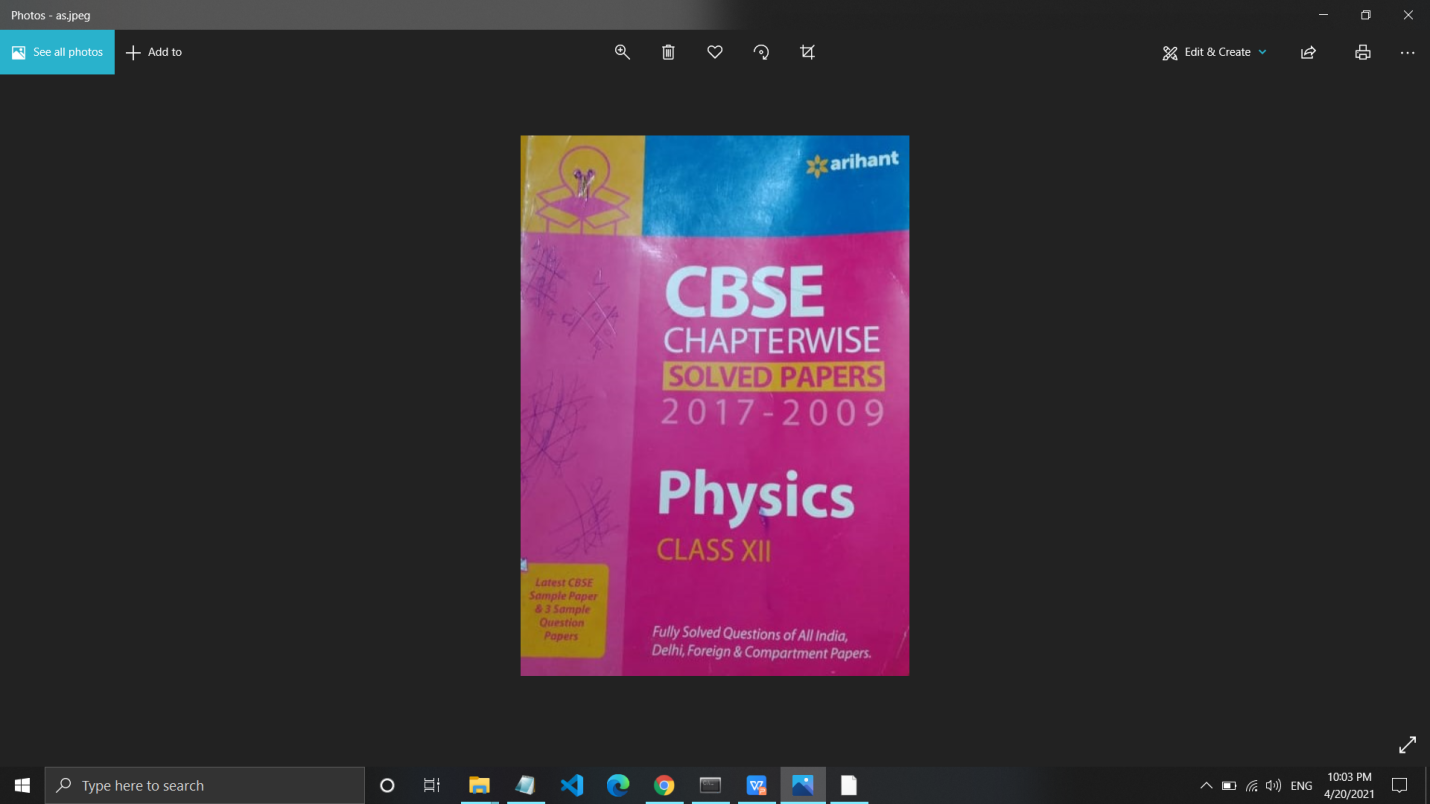
## **Interface**



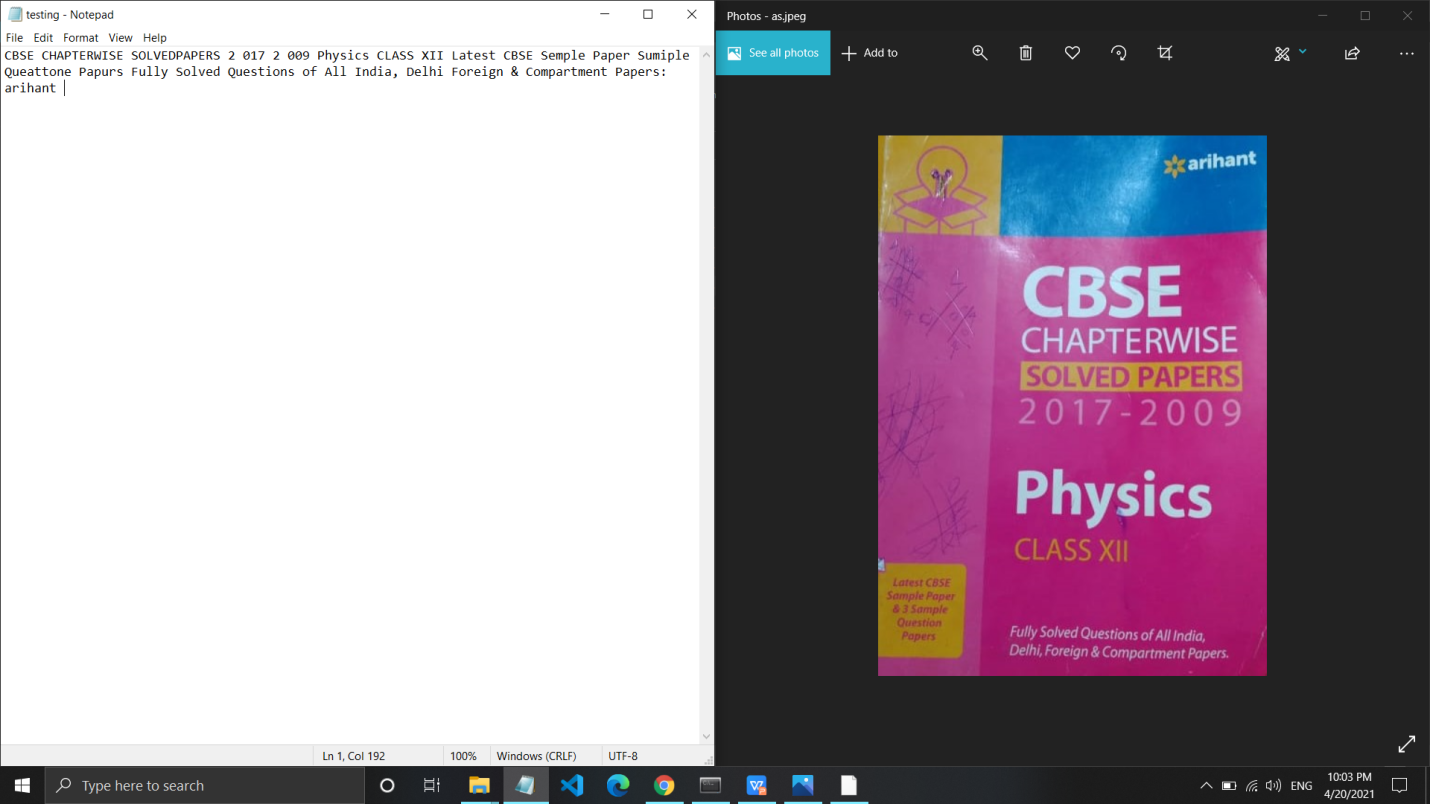
**File.1 - User Interface**



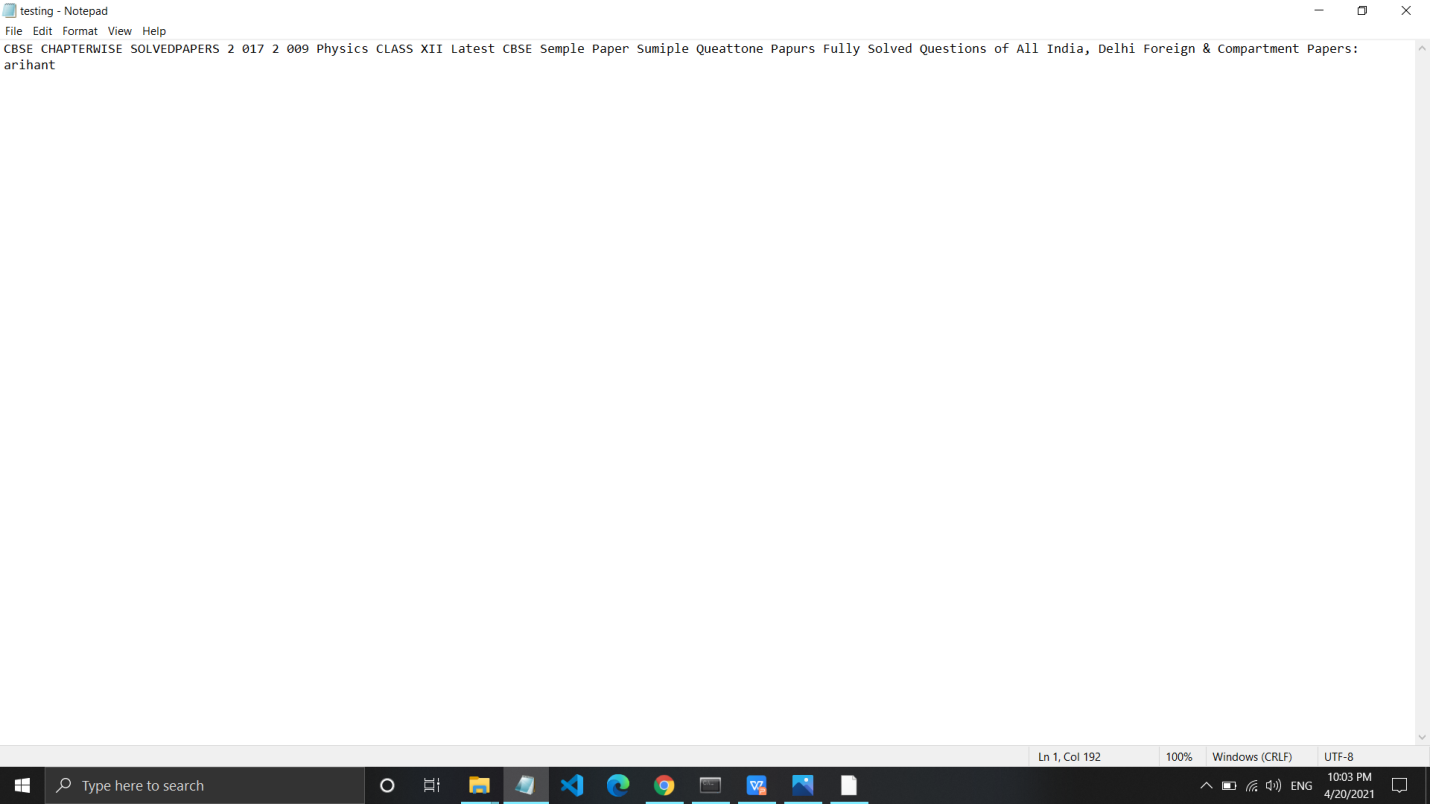
**File.2 - Project running in command shell**



**File.3 - Example dataset of book**



**File.4 - Sample output of project.**



**File.5 - Sample output of project.**

## **Source code**

|  |  |
| --- | --- |
| <Photoselection>: |  |
|  | padding:10 |
|  | spacing:10 |
|  | orientation:'vertical' |
|  | id:tex |
|  | file:file\_location |
|  | output:output\_file |
|  | status : sts |
|  | canvas.before: |
|  | Rectangle: |
|  | pos:self.pos |
|  | size:self.size |
|  | source:'happyshoping.jpeg' |
|  | Label: |
|  | font\_size:40 |
|  | text:"" |
|  | size\_hint:1,0.2 |
|  | Label: |
|  | font\_size:40 |
|  | text:"[b]Image Text Extractor[/b]" |
|  | markup:True |
|  | size\_hint:1,0.2 |
|  | Label: |
|  | font\_size:40 |
|  | text:"" |
|  | size\_hint:1,0.2 |
|  | BoxLayout: |
|  | FileChooserIconView: |
|  | id:file\_location |
|  | size\_hint:1.5,1 |
|  | color: 0,0,0,0.6 |
|  |  |
|  | BoxLayout: |
|  | spacing:5 |
|  | TextInput: |
|  | text:'ENTER OUTPUT FILE NAME' |
|  | size\_hint:0.8,0.2 |
|  | font\_size:25 |
|  | id:output\_file |
|  |  |
|  | Button: |
|  | text:'convert' |
|  | size\_hint:0.2,0.2 |
|  | on\_release:tex.runByThread() |
|  | Label: |
|  | text:'' |
|  | font\_size:25 |
|  | id:sts |
|  | color: 0,0,0,0.6 |
|  | size\_hint:1,0.02 |

**File.1 - Text.kv**

|  |  |
| --- | --- |
| **from .easyocr import Reader** |  |
|  |  |
|  | **\_\_version\_\_ = '1.3.0.1'** |

**File.2 - \_\_init\_\_.py**

|  |  |
| --- | --- |
| **import argparse** |  |
|  | **import easyocr** |
|  | **import os** |
|  | **from threading import Thread** |
|  | **from kivy.app import App** |
|  | **from kivy.uix.boxlayout import BoxLayout** |
|  | **class PhotoSelection(BoxLayout):** |
|  |  |
|  | **def extract(self):** |
|  | **text\_find = []** |
|  | **try:** |
|  | **os.mkdir("data")** |
|  | **except:pass** |
|  | **location = os.path.join(** |
|  | **os.getcwd(),** |
|  | **"data"** |
|  | **)** |
|  | **file = self.file.selection[0]** |
|  | **lang = self.output.text** |
|  | **reader = easyocr.Reader(['en'], 'True')** |
|  | **for line in reader.readtext(file, detail="1"):** |
|  | **text\_find.append(line[1])** |
|  | **text\_find.append(" ")** |
|  |  |
|  | **fi = open(f"{location}\\{lang}.txt" , 'w' )** |
|  | **self.status.text = "Progressing"** |
|  | **for i in range(len(text\_find)):** |
|  | **fi.write(text\_find[i])** |
|  | **fi.close()** |
|  | **self.status.text = "File created"** |
|  | **def runByThread(self):** |
|  | **t = Thread(** |
|  | **target=self.extract,** |
|  | **name='EXTRACT\_THREAD'** |
|  | **)** |
|  | **t.start()** |
|  |  |
|  | **class TextApp(App):** |
|  | **def build(self):** |
|  | **return PhotoSelection()** |
|  |  |
|  | **if \_\_name\_\_ == '\_\_main\_\_':** |
|  | **TextApp().run()** |

**File.3 - cli.py**

|  |  |
| --- | --- |
|  |  |
|  | **Import os** |
|  | **#os.environ["LRU\_CACHE\_CAPACITY"] = "1"** |
|  | **os.environ["KMP\_DUPLICATE\_LIB\_OK"] = "True"** |
|  |  |
|  | **BASE\_PATH = os.path.dirname(\_\_file\_\_)** |
|  | **MODULE\_PATH = os.environ.get("EASYOCR\_MODULE\_PATH") or \** |
|  | **os.environ.get("MODULE\_PATH") or \** |
|  | **os.path.expanduser("~/.EasyOCR/")** |
|  |  |
|  | **# detector parameters** |
|  | **detection\_models = {** |
|  | **'craft' : {** |
|  | **'filename': 'craft\_mlt\_25k.pth',** |
|  | **'url': 'https://github.com/JaidedAI/EasyOCR/releases/download/pre-v1.1.6/craft\_mlt\_25k.zip',** |
|  | **'filesize': '2f8227d2def4037cdb3b34389dcf9ec1'** |
|  | **}** |
|  | **}** |
|  |  |
|  | **# recognizer parameters** |
|  | **latin\_lang\_list = ['af','az','bs','cs','cy','da','de','en','es','et','fr','ga',\** |
|  | **'hr','hu','id','is','it','ku','la','lt','lv','mi','ms','mt',\** |
|  | **'nl','no','oc','pi','pl','pt','ro','rs\_latin','sk','sl','sq',\** |
|  | **'sv','sw','tl','tr','uz','vi']** |
|  | **arabic\_lang\_list = ['ar','fa','ug','ur']** |
|  | **bengali\_lang\_list = ['bn','as','mni']** |
|  | **cyrillic\_lang\_list = ['ru','rs\_cyrillic','be','bg','uk','mn','abq','ady','kbd',\** |
|  | **'ava','dar','inh','che','lbe','lez','tab','tjk']** |
|  | **devanagari\_lang\_list = ['hi','mr','ne','bh','mai','ang','bho','mah','sck','new',\** |
|  | **'gom','sa','bgc']** |
|  | **other\_lang\_list = ['th','ch\_sim','ch\_tra','ja','ko','ta','te','kn']** |
|  |  |
|  | **all\_lang\_list = latin\_lang\_list + arabic\_lang\_list+ cyrillic\_lang\_list +\** |
|  | **devanagari\_lang\_list + bengali\_lang\_list + other\_lang\_list** |
|  | **imgH = 64** |
|  | **separator\_list = {** |
|  | **'th': ['\xa2', '\xa3'],** |
|  | **'en': ['\xa4', '\xa5']** |
|  | **}** |
|  | **separator\_char = []** |
|  | **for lang, sep in separator\_list.items():** |
|  | **separator\_char += sep** |
|  |  |
|  | **recognition\_models = {** |
|  | **'gen1' : {** |
|  | **'latin\_g1':{** |
|  | **'filename': 'latin.pth',** |
|  | **'model\_script': 'latin',** |
|  | **'url': 'https://github.com/JaidedAI/EasyOCR/releases/download/pre-v1.1.6/latin.zip',** |
|  | **'filesize': 'fb91b9abf65aeeac95a172291b4a6176',** |
|  | **'characters': "0123456789!\"#$%&'()\*+,-./:;<=>?@[\\]^\_`{|}~ ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyzÀÁÂÃÄÅÆÇÈÉÊËÍÎÑÒÓÔÕÖØÚÛÜÝÞßàáâãäåæçèéêëìíîïðñòóôõöøùúûüýþÿąęĮįıŁłŒœŠšųŽž",** |
|  | **'symbols': "0123456789!\"#$%&'()\*+,-./:;<=>?@[\\]^\_`{|}~ "** |
|  | **},** |
|  | **'zh\_tra\_g1':{** |
|  | **'filename': 'chinese.pth',** |
|  | **'model\_script': 'chinese\_tra',** |
|  | **'url': 'https://github.com/JaidedAI/EasyOCR/releases/download/pre-v1.1.6/chinese.zip',** |
|  | **'filesize': 'dfba8e364cd98ed4fed7ad54d71e3965',** |
|  | **'characters': '0123456789!"#$%&\'()\*+,-./:;<=>?@[\\]^\_`{|}~ abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ一丁七丈三上下不丑且丕世丘丙丞丟並丫中丰串丸丹主乃久么之乍乎乏乒乓乖乘乙九乞也乳乾亂了予事二于云互五井些亞亟亡亢交亥亦亨享京亭亮亳亶人什仁仃仄仆仇今介仍仔仕他仗付仙仞仡代令以仰仲件价任份仿企伉伊伍伎伏伐休伕伙伯估伴伶伸伺似伽佃但佈位低住佐佑佔何佗佘余佚佛作佝佞佟你佣佤佩佬佯佰佳併佻佼使侃侄來侈例侍侏侑侖侗供依侮侯侵侶侷便係促俄俊俏俐俑俗俘俚保俞俟俠信俬修俯俱俳俵俸俺俾倀倆倉個倍們倒倔倖倘候倚倜借倡倣倦倨倩倪倫倬倭值偃假偈偉偌偏偕做停健側偵偶偷偽傀傅傌傍傑傘備傚傢傣催傭傲傳債傷傻傾僂僅僉像僑僕僖僚僥僧僭僮僰僱僳僵價僻儀儂億儆儉儋儐儒儘償儡優儲儸儻儼儿兀允元兄充兆兇先光克兌免兒兔兕兗兜入內全兩八公六兮共兵其具典兼冀冉冊再冑冒冕冗冠冢冤冥冬冰冶冷冼准凋凌凍凜凝几凡凰凱凳凶凸凹出函刀刁刃分切刈刊刎刑划列初判別刨利刪刮到制刷券刺刻剁剃則削剌前剎剔剖剛剝剡剩剪副割創剷剽剿劃劇劈劉劍劑力功加劣助努劫劭劾勁勃勇勉勒動勖勗勘務勛勝勞募勢勤勦勰勳勵勸勺勻勾勿包匆匈匍匐匕化北匙匝匠匡匣匪匯匱匹匾匿區十千卅升午卉半卑卒卓協南博卜卞占卡卦卯印危即卵卷卸卹卻卿厄厘厚厝原厥厭厲去參又叉及友反叔取受叛叟叡叢口古句另叨叩只叫召叭叮可台叱史右司叻叼吁吃各合吉吊吋同名后吏吐向吒君吝吞吟吠否吧吩含听吳吵吶吸吹吻吼吾呀呂呃呆呈告呎呢呤周味呵呸呻呼命咀咁咄咆和咎咐咒咕咖咚咧咨咩咪咫咬咭咯咱咳咸咽哀品哄哆哇哈哉員哥哦哨哩哪哭哮哲哺哼哿唁唄唆唇唉唐唑唔唧唬售唯唱唸唾啃啄商啊問啕啞啟啡啣啤啥啦啶啼啾喀喂喃善喇喉喊喋喔喘喙喚喜喝喟喧喪喫喬單喱喻嗅嗎嗓嗔嗜嗟嗡嗣嗦嗩嗯嗲嗶嗽嘆嘈嘉嘌嘎嘔嘖嘗嘛嘧嘩嘮嘯嘲嘴嘸嘻嘿噁噎器噩噪噬噴噶噸噹嚇嚎嚏嚐嚥嚨嚮嚴嚼囂囉囊囍囑囚四回因囤困囹固圃圄圈國圍園圓圖團圜土在圩圭圮地圳圻圾址均坊坌坍坎坏坐坑坡坤坦坨坪坭坳坷坻垂垃型垓垚垛垠垢垣垮埂埃埋城埏埒埔埕域埠埤埭執埸培基埼堀堂堅堆堇堉堊堍堠堡堤堪堯堰報場堵塊塌塑塔塗塘塚塞塢塤填塵塾墀境墅墉墊墓墘墜增墟墨墩墮墳墾壁壅壇壑壓壕壘壙壞壟壢壤壩士壬壯壹壺壼壽夏夔夕外夙多夜夠夢夥大天太夫夭央夯失夷夸夾奄奇奈奉奎奏奐契奔奕套奘奚奠奢奧奪奭奮女奴奶奸她好如妃妄妊妍妒妓妖妙妝妞妣妤妥妨妮妲妳妹妻妾姆姊始姐姑姒姓委姚姜姝姣姥姦姨姪姬姮姻姿威娃娑娘娛娜娟娠娣娥娩娶娼婁婆婉婕婚婢婦婧婪婭婷婺婿媒媚媛媧媲媳媽嫁嫂嫉嫌嫖嫚嫡嫣嫦嫩嫻嬉嬋嬌嬗嬛嬤嬪嬬嬰嬴嬸嬿孀孃孌子孔孕孖字存孚孛孜孝孟孢季孤孩孫孱孵學孺孽孿宁它宅宇守安宋完宏宓宕宗官宙定宛宜客宣室宥宦宮宰害宴宵家宸容宿寂寄寅密寇富寐寒寓寞察寡寢寥實寧寨審寫寬寮寰寵寶寸寺封射將專尉尊尋對導小少尕尖尚尤尪尬就尷尸尹尺尻尼尾尿局屁居屆屈屋屍屎屏屑展屜屠屢層履屬屯山岌岐岑岔岡岩岫岬岱岳岷岸峇峋峒峙峨峪峭峰島峻峽崁崆崇崎崑崔崖崗崙崚崛崞崢崤崧崩崮崴崽嵊嵌嵎嵐嵩嵬嵯嶄嶇嶙嶲嶷嶺嶼嶽巍巒巔巖川州巡巢工左巧巨巫差巰己已巳巴巷巽巾市布帆希帑帕帖帘帚帛帝帥師席帳帶帷常帽幄幅幌幕幗幘幟幡幢幣幫干平年并幸幹幻幼幽幾庄庇床庋序底庖店庚府庠度座庫庭庵庶康庸庹庾廁廂廈廉廊廒廓廕廖廚廝廟廠廡廢廣廩廬廳延廷建廿弁弄弈弊弋式弒弓弔引弗弘弛弟弢弦弧弩弱張強弼彆彈彊彌彎彗彘彙形彤彥彧彩彪彬彭彰影彷役彼彿往征待徇很徊律後徐徑徒得徘徙從徠御徨復循徬徭微徵德徹徽心必忌忍忐忑忒忖志忘忙忠忡忤快忭忱念忸忻忽忿怎怒怕怖思怠怡急性怨怩怪怯恁恂恃恆恉恍恐恕恙恢恣恤恥恨恩恪恫恬恭息恰恿悄悅悉悌悍悔悖悚悝悟悠患您悱悲悵悶悸悼悽情惆惇惊惋惑惕惚惜惟惠惡惦惰惱想惶惹惺惻愁愆愈愉愍意愕愚愛感愧愫愷愿慄慈態慌慎慕慘慚慟慢慣慧慨慫慮慰慵慶慷慾憂憊憎憐憑憚憤憧憨憩憫憬憲憶憾懂懃懇懈應懊懋懣懦懲懶懷懸懺懼懾懿戀戇戈戊戌戍戎成我戒戕或戚戛戟戡截戮戰戲戳戴戶戾房所扁扇扈手才扎扑扒打扔托扛扣扦扭扮扯扳扶批扼找承技抃抄抉把抑抒抓投抖抗折抨披抬抱抵抹押抽拂拄拆拇拈拉拋拌拍拎拐拒拓拔拖拗拘拙拚招拜括拭拮拯拱拳拴拷拼拽拾拿持挂指按挑挖挨挪挫振挹挺挽挾捂捅捆捉捍捎捏捐捕捧捨捩捫据捱捲捶捷捺捻掀掃掄授掉掌掎掏掐排掖掘掙掛掟掠採探掣接控推掩措掰掾揀揆揉揍描提插揖揚換握揣揩揪揭揮援揹損搏搐搓搖搗搜搞搡搥搪搬搭搶摒摔摘摧摩摭摯摶摸摹摺摻摽撂撇撈撐撒撓撕撞撤撥撩撫撬播撮撰撲撻撼撾撿擁擂擄擅擇擊擋操擎擒擔擘據擠擢擦擬擭擱擲擴擺擾攀攄攏攔攘攙攜攝攣攤攪攫攬支收攸改攻放政故效敏救敔敕敖敗敘教敝敞敢散敦敬敲整敵敷數斂斃文斌斐斑斗料斛斜斟斡斤斥斧斫斬斯新斷方於施旁旃旄旅旋旌族旒旗既日旦旨早旬旭旱旺旻昀昂昃昆昇昊昌明昏易昔昕昝星映昤春昧昨昭是昱昴昵昶時晃晉晏晒晙晚晝晞晟晤晦晨普景晰晴晶晸智晾暄暇暈暉暌暐暑暖暗暝暠暢暨暫暮暱暴暹曄曆曉曖曙曜曝曠曦曩曬曰曲曳更書曹曼曾替最會月有朋服朔朕朗望朝期木未末本札朱朴朵朽杆杉李杏材村杖杜杞束杠杭杯杰東杲杳杵杷杻杼松板枇枉枋析枕林枚果枝枯架枷枸柁柄柏某柑染柔柘柚柜柝柞柢查柩柬柯柰柱柳柴柵柿栓栖栗栝校栩株栲核根格栽桀桂桃桅框案桉桌桎桐桑桓桴桶桿梁梅梆梏梓梗條梟梢梧梨梭梯械梳梵棄棉棋棍棐棒棕棗棘棚棟棠棣棧棨棪棫森棱棲棵棹棺棻棼椅椋植椎椏椒椰椴椿楊楓楔楙楚楞楠楢楣楨楫業極楷楹概榆榎榔榕榛榜榨榭榮榴榷榻榿槃槊構槍槎槐槓槙槤槭槳槻槽槿樁樂樊樑樓樗標樞樟模樣樵樸樹樺樽橄橇橈橋橘橙機橡橢橫橿檀檄檎檐檔檗檜檢檬檯檳檸檻櫃櫓櫚櫛櫟櫥櫧櫨櫬櫸櫻欄權欒欖欠次欣欲欹欺欽款歃歆歇歉歌歎歐歙歜歟歡止正此步武歧歪歲歷歸歹死殂殃殆殉殊殖殘殫殭殮殯殲段殷殺殼殿毀毅毆毋母每毒毓比毖毗毘毛毫毬毯毽氏氐民氓气氘氙氚氛氟氣氦氧氨氫氬氮氯氰水永氾汀汁求汊汎汐汕汗汙汛汜汝汞江池污汨汪汰汲汴汶決汽汾沁沂沃沅沈沉沌沐沒沓沔沖沙沚沛沫沭沮沱河沸油治沼沽沾沿況泄泅泉泊泌泓法泖泗泚泛泡波泣泥注泫泮泰泳泵洄洋洌洒洗洙洛洞津洩洪洮洱洲洵洶洸洹活洽派流浙浚浦浩浪浮浴海浸涂涅涇消涉涌涕涪涮涯液涵涼涿淀淄淅淆淇淋淌淑淒淖淘淙淚淞淡淤淦淨淪淫淮淯深淳淵混淹淺添淼清渚減渝渠渡渣渤渥渦測渭港渲渴游渺渾湃湄湊湍湖湘湛湜湟湣湧湮湯溉源準溘溜溝溟溢溥溧溪溫溯溲溴溶溺溼溽滁滂滄滅滇滋滌滎滑滓滔滕滘滬滯滲滴滷滸滾滿漁漂漆漏漓演漕漠漢漣漩漪漫漬漱漲漳漶漸漾漿潁潑潔潘潛潞潟潢潤潭潮潯潰潸潼澀澂澄澆澈澍澎澔澗澡澤澧澮澱澳澹激濁濂濃濉濕濘濛濟濠濡濤濫濬濮濰濱濺濾瀆瀉瀋瀏瀑瀕瀘瀚瀛瀝瀟瀦瀧瀨瀾灌灑灘灝灞灣火灰灶灸灼災炅炊炎炒炕炖炙炤炫炬炭炮炯炳炸為烜烤烯烴烷烹烽焉焊焙焚焜無焦焯焰然煃煇煉煌煎煒煙煜煞煤煥照煩煬煮煲煽熄熊熏熒熔熙熟熨熬熱熵熹熾燁燃燄燈燉燊燎燒燕燙營燥燦燧燬燭燮燹燼燾爆爇爍爐爛爪爬爭爰爵父爸爹爺爽爾牂牆片版牌牒牘牙牛牟牠牡牢牧物牲特牽犀犁犍犒犛犢犧犬犯狀狂狄狌狐狗狙狠狡狩狸狹狼狽猁猖猗猛猜猝猞猥猩猴猶猷猾猿獄獅獎獗獠獨獲獵獷獸獻獼獾玄率玉王玕玖玟玠玥玦玩玫玲玳玷玻珀珂珈珊珍珙珞珠珩珪班珮珽現球琅理琇琉琊琍琚琛琢琥琦琨琪琮琯琰琳琴琵琶瑁瑋瑕瑙瑚瑛瑜瑞瑟瑣瑤瑩瑪瑭瑯瑰瑾璀璃璆璇璉璋璐璘璜璞璟璦璧璨璫環璽璿瓊瓏瓚瓜瓢瓣瓦瓮瓶瓷甄甕甘甚甜生產甥甦用甩甫甬甯田由甲申男甸町甾畀畈畋界畏畔留畜畝畢畤略畦番畫異當畸畿疆疇疊疏疑疙疚疝疣疤疥疫疲疳疵疹疼疾病症痊痍痔痕痘痙痛痞痢痣痰痲痳痴痹痺痿瘀瘁瘉瘋瘍瘓瘟瘠瘡瘤瘦瘧瘩瘳瘴療癆癌癒癘癟癡癢癬癮癱癸登發白百皂的皆皇皈皋皎皓皖皚皮皰皺皿盂盃盅盆盈益盎盒盔盛盜盞盟盡監盤盥盧盪目盯盱盲直相盼盾省眈眉看眙真眠眨眩眭眯眶眷眸眺眼眾睇睛睜睞睡睢督睦睪睫睬睹睽睾睿瞄瞇瞋瞎瞑瞞瞢瞧瞪瞬瞭瞰瞳瞻瞿矗矚矛矜矢矣知矩短矮矯石矻矽砂砆砌砍研砝砟砢砦砧砭砲破砵砸硃硅硒硝硤硨硫硬确硯硼硿碇碌碎碑碓碗碘碚碟碣碧碩碭碰碳碴確碻碼碾磁磅磊磋磐磔磚磡磧磨磬磯磲磷磺礁礎礑礙礦礪礫示礽社祀祁祂祇祈祉祊祐祕祖祗祚祛祜祝神祟祠祥祧票祭祺祿禁禍禎福禕禦禧禪禮禱禳禹禺禽禾禿秀私秉秋科秒秕秘租秣秤秦秧秩秫秸移稀稃稅程稍稔稗稙稚稜稞稟稠種稱稷稻稼稽稿穀穆穌積穎穗穢穩穫穴究穹空穿突窄窆窈窒窕窖窗窘窟窠窨窩窪窮窯窺窿竄竅竇竊立竑站竟章竣童竭端競竹竺竽竿笈笏笑笘笙笛笞笠符笨第笭筅筆等筊筋筍筏筐筑筒答策筠筩筮筱筲筵筷箇箋箍箏箔箕算管箬箭箱箴箸節範篆篇築篙篚篠篡篤篦篩篷篾簇簋簑簡簧簪簷簸簽簾簿籀籃籌籍籙籠籤籬籲米籽粉粑粒粕粗粘粟粥粱粲粵粹粽精粿糊糌糕糖糙糜糞糟糠糧糯糰糴糸系糾紀約紅紆紉紊紋納紐紓純紗紘紙級紛紜素紡索紫紮累細紳紹紺絀終絃組結絕絛絜絞絡絢給絨絮統絲絳絹綁綏綑經綜綠綢綦綬維綱網綴綵綸綺綻綽綾綿緊緋緒線緝緞締緣編緩緬緯練緻縉縊縑縛縝縞縣縫縮縯縱縷總績繁繃繆織繕繖繞繡繩繪繫繭繳繹繼纂纇纈續纏纓纖纘纛纜缶缸缺缽罄罌罐罔罕罘罟罩罪置罰署罵罷罹羅羆羈羊羌美羔羚羞群羥羧羨義羯羰羲羸羹羽羿翁翅翊翌翎習翔翟翠翡翥翦翩翮翰翱老考耄者耆耋而耍耐耒耕耖耗耘耙耜耦耳耶耽耿聆聊聒聖聘聚聞聯聰聲聳聶職聽聾聿肄肅肆肇肉肋肌肖肘肚肛肜肝股肢肥肩肪肫肯肱育肺胂胃胄背胎胖胚胛胞胡胤胥胭胯胰胱胸胺能脂脅脆脈脊脖脛脣脩脫脹脾腆腊腋腌腎腐腑腓腔腕腥腦腧腫腰腱腳腴腸腹腺腿膀膂膈膊膏膚膛膜膝膠膨膩膳膺膽膾膿臀臂臃臆臉臊臘臚臞臟臣臥臧臨自臬臭至致臺臻臼臾舀舂舅與興舉舊舌舍舒舔舖舜舞舟航般舵舶舷舸船舺艇艮良艱色艷艾芊芋芍芎芒芙芝芡芥芩芫芬芭芮芯花芳芷芸芹芽芾苑苒苓苔苕苗苛苜苞苟苡苣若苦苧苯英苳苹苻苾茁茂范茄茅茆茉茌茗茛茜茨茫茯茱茲茴茵茶茸茹荀荃荅草荊荏荐荒荔荖荷荸荻荼荽莆莉莊莎莒莓莖莘莞莢莪莫莽菀菁菅菇菊菌菏菑菘菜菠菡菩華菱菲菴菸萁萃萄萇萊萌萍萎萩萬萱萸萼落葆葉著葛葡董葦葫葬葳葵葶葺蒂蒐蒔蒙蒜蒞蒡蒨蒯蒲蒴蒸蒺蒼蒿蓀蓄蓆蓉蓋蓑蓓蓬蓮蓼蔑蔓蔗蔚蔡蔣蔥蔬蔭蔻蔽蕃蕈蕉蕊蕙蕞蕨蕩蕪蕭蕾薄薇薈薊薑薙薛薜薦薨薩薪薯薰薹薺藉藍藏藐藕藜藝藤藥藨藩藪藻蘄蘅蘆蘇蘊蘋蘑蘚蘧蘭蘸蘼蘿虎虐虔處虖虛虜虞號虧虫虱虹蚊蚌蚓蚕蚜蚣蚤蚨蚩蚪蚵蚺蛄蛆蛇蛉蛋蛐蛔蛙蛛蛟蛤蛩蛭蛹蛺蛻蛾蜀蜂蜆蜈蜊蜑蜒蜓蜘蜚蜜蜡蜥蜱蜴蜷蜻蜿蝌蝕蝗蝘蝙蝠蝦蝮蝴蝶蝸螂螃螈融螞螟螢螭螯螳螺螽蟀蟄蟆蟈蟋蟑蟠蟬蟲蟹蟻蟾蠃蠅蠆蠍蠑蠓蠔蠕蠟蠡蠢蠣蠱蠲蠶蠻血行衍術街衙衛衝衡衢衣表衫衰衷衹袁袋袍袒袖袛袞袪被袱裁裂裔裕裘裙補裝裡裨裱裲裳裴裸裹製裾褂複褐褒褚褡褥褪褫褲褶褸褻襄襖襟襠襤襦襪襬襯襲西要覃覆見規覓視覘親覲覺覽觀角觔觚觝解觴觸觿言訂訃訇計訊訌討訐訓訕訖託記訛訝訟訢訣訥訪設許訴訶診註証詐詒詔評詗詛詞詠詢試詩詫詬詭詮詰話該詳詹詼誅誇誌認誓誕誘語誠誡誣誤誥誦誨說誰課誼調諂談請諍諏諒論諛諜諡諤諦諧諫諭諮諱諳諷諸諺諾謀謁謂謄謇謊謎謗謙謚講謝謠謨謫謬謳謹謾譁證譏識譙譚譜警譬譯議譴護譽讀變讓讖讙讚讞谷谿豁豆豈豉豊豌豎豐豔豚象豢豹豺貂貉貊貌貍貓貝貞負財貢貧貨販貪貫責貴貶買貸費貼貽貿賀賁賂賃賄資賈賊賑賓賚賜賞賠賡賢賣賤賦質賬賭賴賸賺購賽贇贈贊贏贓贖贛赤赦赫赭走赴赶起趁超越趕趙趟趣趨足趴趵趾跆跋跌跑跖跗跛距跟跡跣跤跨跪路跳踊踏踐踝踞踢踩踰踴踵踹蹂蹄蹇蹈蹊蹋蹔蹟蹠蹤蹦蹬蹭蹯蹲蹴蹶蹼躁身躬躲躺軀車軋軌軍軒軔軛軟軫軸軾較輅載輒輓輔輕輛輜輝輟輩輪輯輸輻輾輿轂轄轅轉轍轎轟辛辜辟辣辦辨辭辯辰辱農迂迄迅迎近返迢迤迥迦迨迪迫迭述迴迷迺追退送适逃逄逅逆逋逍透逐逑途逕逗這通逛逝逞速造逢連逮逯週進逵逶逸逼逾遁遂遇遊運遍過遏遐遑遒道達違遘遙遜遞遠遣遨適遭遮遲遴遵遶遷選遺遼遽避邀邁邂還邇邈邊邏邑邕邛邠邢那邦邪邯邰邱邳邴邵邸邽邾郁郃郅郇郊郎郛郜郝郡郢部郭郯郴郵都郾鄂鄉鄒鄔鄙鄞鄧鄭鄯鄰鄱鄴鄺酆酉酊酋酌配酐酒酗酚酣酥酩酪酬酮酯酴酵酷酸醅醇醉醋醍醐醒醚醛醜醞醣醫醬醮醯醴釀釁采釉釋里重野量釐金釗釘釜針釣釦釧釵釷鈉鈍鈔鈕鈞鈣鈴鈷鈸鈺鈾鉀鉅鉉鉑鉗鉚鉛鉞鉤鉬鉸鉻銀銃銅銓銖銘銜銥銨銫銳銷銼鋁鋅鋆鋒鋤鋪鋰鋸鋼錄錐錒錕錘錚錠錡錢錦錨錫錮錯錳錶鍊鍋鍍鍛鍥鍬鍰鍱鍵鍶鍼鍾鎂鎊鎌鎖鎗鎚鎡鎧鎩鎬鎮鎳鏈鏖鏗鏘鏞鏟鏡鏢鏤鏽鐘鐙鐮鐵鐸鑄鑊鑑鑒鑣鑫鑰鑱鑲鑷鑼鑽鑾鑿長門閂閃閉開閏閑閒間閔閘閡閣閤閥閨閩閫閭閱閹閻閼閾闆闇闈闊闌闓闔闕闖關闞闡闢阜阡阪阮阱防阻阽阿陀陂附陋陌降限陛陝陞陟陡院陣除陪陰陲陳陵陶陷陸陽隄隅隆隈隊隋隍階隔隕隗隘隙際障隧隨險隱隴隸隹隻隼雀雁雄雅集雇雉雋雌雍雎雒雕雖雘雙雛雜雞離難雨雪雯雰雲零雷雹電需霄霆震霉霍霎霏霑霓霖霙霜霞霧霨霰露霸霹霽霾靂靄靈青靖靚靛靜非靠靡面靨革靳靴靶靼鞅鞋鞍鞏鞘鞠鞣鞭韁韃韋韌韓韜韞韭音韶韻響頁頂頃項順須頊頌頏預頑頒頓頗領頜頡頤頦頭頰頷頸頹頻顆題額顎顏顒顓願顙顛類顥顧顫顯顱風颯颱颶飄飆飛食飢飩飪飭飯飲飴飼飽飾餅餉養餌餐餒餓餘餚餛餞餡館餬餵餽餾饅饈饋饌饑饒饕饗首馗香馥馨馬馭馮馳馴駁駐駒駕駙駛駝駭駱駿騁騎騏騑騙騧騫騰騷騾驁驃驄驅驊驍驕驗驚驛驟驢驤驩驪骨骰骷骸骼髀髏髒髓體髖高髦髮髯髻鬃鬆鬍鬘鬚鬟鬣鬥鬧鬩鬯鬱鬲鬻鬼魁魂魄魅魋魏魔魚魨魯魴魷鮆鮑鮚鮠鮨鮪鮫鮭鮮鮸鯁鯉鯊鯔鯖鯛鯡鯧鯨鯰鯽鰈鰍鰓鰨鰭鰲鰻鱄鱈鱔鱗鱘鱠鱧鱨鱷鱸鱺鳥鳩鳳鳴鳶鴉鴒鴛鴞鴦鴨鴻鴿鵝鵠鵡鵪鵬鵰鵲鶉鶩鶯鶴鶿鷗鷳鷸鷹鷺鸕鸚鸛鸞鹵鹹鹼鹽鹿麂麇麋麒麓麗麝麟麥麩麴麵麻麼麾黃黎黏黑黔默黛黜點黠黧黨黯黴黷黼鼎鼐鼓鼠鼬鼻齊齋齒齡齣齦齧龍龐龔龕龜龢',** 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|  | **'characters': "0123456789!\"#$%&'()\*+,-./:;<=>?@[\\]^\_`{|}~ abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ一丁七万丈三上下不与丐丑专且丕世丘丙业丛东丝丞丢两严丧个丫中丰串临丸丹为主丽举乃久么义之乌乍乎乏乐乒乓乔乖乘乙乜九乞也习乡书乩买乱乳乾了予争事二亍于亏云互亓五井亘亚些亟亡亢交亥亦产亨亩享京亭亮亲亳亵人亿什仁仂仃仄仅仆仇仉今介仍从仑仓仔仕他仗付仙仞仟仡代令以仨仪仫们仰仲仳仵件价任份仿企伉伊伍伎伏伐休众优伙会伛伞伟传伢伤伦伧伪伫伯估伴伶伸伺似伽佃但位低住佐佑体何佗佘余佚佛作佝佞佟你佣佤佥佩佬佯佰佳佴佶佻佼佾使侃侄侈侉例侍侏侑侔侗供依侠侣侥侦侧侨侩侪侬侮侯侵便促俄俅俊俎俏俐俑俗俘俚俜保俞俟信俣俦俨俩俪俭修俯俱俳俸俺俾倌倍倏倒倔倘候倚倜借倡倥倦倨倩倪倬倭债值倾偃假偈偌偎偏偕做停健偬偶偷偻偾偿傀傅傈傍傣傥傧储傩催傲傻像僖僚僦僧僬僭僮僳僵僻儆儇儋儒儡儿兀允元兄充兆先光克免兑兔兕兖党兜兢入全八公六兮兰共关兴兵其具典兹养兼兽冀冁内冈冉册再冒冕冗写军农冠冢冤冥冬冯冰冱冲决况冶冷冻冼冽净凄准凇凉凋凌减凑凛凝几凡凤凫凭凯凰凳凶凸凹出击凼函凿刀刁刃分切刈刊刍刎刑划刖列刘则刚创初删判刨利别刭刮到刳制刷券刹刺刻刽刿剀剁剂剃削剌前剐剑剔剖剜剞剡剥剧剩剪副割剽剿劁劂劈劐劓力劝办功加务劢劣动助努劫劬劭励劲劳劾势勃勇勉勋勐勒勖勘募勤勰勺勾勿匀包匆匈匍匏匐匕化北匙匝匠匡匣匦匪匮匹区医匾匿十千卅升午卉半华协卑卒卓单卖南博卜卞卟占卡卢卣卤卦卧卫卮卯印危即却卵卷卸卺卿厂厄厅历厉压厌厍厕厘厚厝原厢厣厥厦厨厩厮去县叁参又叉及友双反发叔取受变叙叛叟叠口古句另叨叩只叫召叭叮可台叱史右叵叶号司叹叻叼叽吁吃各吆合吉吊同名后吏吐向吒吓吕吗君吝吞吟吠吡吣否吧吨吩含听吭吮启吱吲吴吵吸吹吻吼吾呀呃呆呈告呋呐呓呔呕呖呗员呙呛呜呢呤呦周呱呲味呵呶呷呸呻呼命咀咂咄咆咋和咎咏咐咒咔咕咖咙咚咛咝咣咤咦咧咨咩咪咫咬咭咯咱咳咴咸咻咽咿哀品哂哄哆哇哈哉哌响哎哏哐哑哓哔哕哗哙哚哝哞哟哥哦哧哨哩哪哭哮哲哳哺哼哽哿唁唆唇唉唏唐唑唔唛唠唢唣唤唧唪唬售唯唱唳唷唼唾唿啁啃啄商啉啊啐啕啖啜啡啤啥啦啧啪啬啭啮啵啶啷啸啻啼啾喀喁喂喃善喇喈喉喊喋喏喑喔喘喙喜喝喟喧喱喳喵喷喹喻喽喾嗄嗅嗉嗌嗍嗑嗒嗓嗔嗖嗜嗝嗟嗡嗣嗤嗥嗦嗨嗪嗫嗬嗯嗲嗳嗵嗷嗽嗾嘀嘁嘈嘉嘌嘎嘏嘘嘛嘞嘟嘣嘤嘧嘬嘭嘱嘲嘴嘶嘹嘻嘿噌噍噎噔噗噙噜噢噤器噩噪噫噬噱噶噻噼嚅嚆嚎嚏嚓嚣嚯嚷嚼囊囔囚四囝回囟因囡团囤囫园困囱围囵囹固国图囿圃圄圆圈圉圊圜土圣在圩圪圬圭圮圯地圳圹场圻圾址坂均坊坌坍坎坏坐坑块坚坛坜坝坞坟坠坡坤坦坨坩坪坫坭坯坳坷坻坼垂垃垄垅垆型垌垒垓垛垠垡垢垣垤垦垧垩垫垭垮垲垸埂埃埋城埏埒埔埕埘埙埚埝域埠埤埭埯埴埸培基埽堂堆堇堋堍堑堕堙堞堠堡堤堪堰堵塄塌塍塑塔塘塞塥填塬塾墀墁境墅墉墒墓墙增墟墨墩墼壁壅壑壕壤士壬壮声壳壶壹处备复夏夔夕外夙多夜够夤夥大天太夫夭央夯失头夷夸夹夺夼奁奂奄奇奈奉奋奎奏契奔奕奖套奘奚奠奢奥女奴奶奸她好妁如妃妄妆妇妈妊妍妒妓妖妗妙妞妣妤妥妨妩妪妫妮妯妲妹妻妾姆姊始姐姑姒姓委姗姘姚姜姝姣姥姨姬姹姻姿威娃娄娅娆娇娈娉娌娑娓娘娜娟娠娣娥娩娱娲娴娶娼婀婆婉婊婕婚婢婧婪婴婵婶婷婺婿媒媚媛媪媲媳媵媸媾嫁嫂嫉嫌嫒嫔嫖嫘嫜嫠嫡嫣嫦嫩嫫嫱嬉嬖嬗嬴嬷孀子孑孓孔孕字存孙孚孛孜孝孟孢季孤孥学孩孪孬孰孱孳孵孺孽宁它宄宅宇守安宋完宏宓宕宗官宙定宛宜宝实宠审客宣室宥宦宪宫宰害宴宵家宸容宽宾宿寂寄寅密寇富寐寒寓寝寞察寡寤寥寨寮寰寸对寺寻导寿封射将尉尊小少尔尕尖尘尚尜尝尤尥尧尬就尴尸尹尺尻尼尽尾尿局屁层居屈屉届屋屎屏屐屑展屙属屠屡屣履屦屯山屹屺屿岁岂岈岌岍岐岑岔岖岗岘岙岚岛岢岣岩岫岬岭岱岳岵岷岸岿峁峄峋峒峙峡峤峥峦峨峪峭峰峻崂崃崆崇崎崔崖崛崞崤崦崧崩崭崮崴崽嵇嵊嵋嵌嵘嵛嵝嵩嵫嵬嵯嵴嶂嶙嶝嶷巅巍川州巡巢工左巧巨巩巫差巯己已巳巴巷巽巾币市布帅帆师希帏帐帑帔帕帖帘帙帚帛帜帝带帧席帮帱帷常帻帼帽幂幄幅幌幔幕幛幞幡幢干平年并幸幺幻幼幽广庀庄庆庇床庋序庐庑库应底庖店庙庚府庞废庠庥度座庭庳庵庶康庸庹庾廉廊廒廓廖廛廨廪延廷建廿开弁异弃弄弈弊弋式弑弓引弗弘弛弟张弥弦弧弩弭弯弱弹强弼彀归当录彖彗彘彝形彤彦彩彪彬彭彰影彳彷役彻彼往征徂径待徇很徉徊律後徐徒徕得徘徙徜御徨循徭微徵德徼徽心必忆忉忌忍忏忐忑忒忖志忘忙忝忠忡忤忧忪快忭忮忱念忸忻忽忾忿怀态怂怃怄怅怆怊怍怎怏怒怔怕怖怙怛怜思怠怡急怦性怨怩怪怫怯怵总怼怿恁恂恃恋恍恐恒恕恙恚恝恢恣恤恧恨恩恪恫恬恭息恰恳恶恸恹恺恻恼恽恿悃悄悉悌悍悒悔悖悚悛悝悟悠患悦您悫悬悭悯悱悲悴悸悻悼情惆惊惋惑惕惘惚惜惝惟惠惦惧惨惩惫惬惭惮惯惰想惴惶惹惺愀愁愆愈愉愍愎意愕愚感愠愣愤愦愧愫愿慈慊慌慎慑慕慝慢慧慨慰慵慷憋憎憔憝憧憨憩憬憷憾懂懈懊懋懑懒懦懵懿戆戈戊戋戌戍戎戏成我戒戕或戗战戚戛戟戡戢戥截戬戮戳戴户戽戾房所扁扃扇扈扉手扌才扎扑扒打扔托扛扣扦执扩扪扫扬扭扮扯扰扳扶批扼找承技抄抉把抑抒抓投抖抗折抚抛抟抠抡抢护报抨披抬抱抵抹抻押抽抿拂拄担拆拇拈拉拊拌拍拎拐拒拓拔拖拗拘拙拚招拜拟拢拣拥拦拧拨择括拭拮拯拱拳拴拶拷拼拽拾拿持挂指挈按挎挑挖挚挛挝挞挟挠挡挢挣挤挥挨挪挫振挲挹挺挽捂捃捅捆捉捋捌捍捎捏捐捕捞损捡换捣捧捩捭据捱捶捷捺捻掀掂掇授掉掊掌掎掏掐排掖掘掠探掣接控推掩措掬掭掮掰掳掴掷掸掺掼掾揄揆揉揍揎描提插揖揞揠握揣揩揪揭援揶揸揽揿搀搁搂搅搋搌搏搐搓搔搛搜搞搠搡搦搪搬搭搴携搽摁摄摅摆摇摈摊摒摔摘摞摧摩摭摸摹摺撂撄撅撇撑撒撕撖撙撞撤撩撬播撮撰撵撷撸撺撼擀擂擅操擎擐擒擘擞擢擤擦攀攉攒攘攥攫攮支收攸改攻放政故效敉敌敏救敕敖教敛敝敞敢散敦敫敬数敲整敷文斋斌斐斑斓斗料斛斜斟斡斤斥斧斩斫断斯新方於施旁旃旄旅旆旋旌旎族旒旖旗无既日旦旧旨早旬旭旮旯旰旱时旷旺昀昂昃昆昊昌明昏易昔昕昙昝星映春昧昨昭是昱昴昵昶昼显晁晃晋晌晏晒晓晔晕晖晗晚晟晡晤晦晨普景晰晴晶晷智晾暂暄暇暌暑暖暗暝暧暨暮暴暹暾曙曛曜曝曦曩曰曲曳更曷曹曼曾替最月有朊朋服朐朔朕朗望朝期朦木未末本札术朱朴朵机朽杀杂权杆杈杉杌李杏材村杓杖杜杞束杠条来杨杪杭杯杰杲杳杵杷杼松板极构枇枉枋析枕林枘枚果枝枞枢枣枥枧枨枪枫枭枯枰枳枵架枷枸柁柃柄柏某柑柒染柔柘柙柚柜柝柞柠柢查柩柬柯柰柱柳柴柽柿栀栅标栈栉栊栋栌栎栏树栓栖栗栝校栩株栲栳样核根格栽栾桀桁桂桃桄桅框案桉桊桌桎桐桑桓桔桕桠桡桢档桤桥桦桧桨桩桫桴桶桷梁梃梅梆梏梓梗梢梦梧梨梭梯械梳梵检棂棉棋棍棒棕棘棚棠棣森棰棱棵棹棺棼椁椅椋植椎椐椒椟椠椤椭椰椴椹椽椿楂楔楗楚楝楞楠楣楦楫楮楷楸楹楼榀概榄榆榇榈榉榍榔榕榛榜榧榨榫榭榱榴榷榻槁槊槌槎槐槔槛槟槠槭槲槽槿樊樗樘樟模樨横樯樱樵樽樾橄橇橐橘橙橛橡橥橱橹橼檀檄檎檐檑檗檠檩檫檬欠次欢欣欤欧欲欷欺款歃歆歇歉歌歙止正此步武歧歪歹死歼殁殂殃殄殆殇殉殊残殍殒殓殖殚殛殡殪殳殴段殷殿毁毂毅毋母每毒毓比毕毖毗毙毛毡毪毫毯毳毵毹毽氅氆氇氍氏氐民氓气氕氖氘氙氚氛氟氡氢氤氦氧氨氩氪氮氯氰氲水永氽汀汁求汆汇汉汊汐汔汕汗汛汜汝汞江池污汤汨汩汪汰汲汴汶汹汽汾沁沂沃沅沆沈沉沌沏沐沓沔沙沛沟没沣沤沥沦沧沩沪沫沭沮沱河沸油治沼沽沾沿泄泅泉泊泌泐泓泔法泖泗泛泞泠泡波泣泥注泪泫泮泯泰泱泳泵泷泸泺泻泼泽泾洁洄洇洋洌洎洒洗洙洚洛洞津洧洪洫洮洱洲洳洵洹活洼洽派流浃浅浆浇浈浊测浍济浏浑浒浓浔浙浚浜浞浠浣浦浩浪浮浯浴海浸浼涂涅消涉涌涎涑涓涔涕涛涝涞涟涠涡涣涤润涧涨涩涪涫涮涯液涵涸涿淀淄淅淆淇淋淌淑淖淘淙淝淞淠淡淤淦淫淬淮深淳混淹添淼清渊渌渍渎渐渑渔渖渗渚渝渠渡渣渤渥温渫渭港渲渴游渺湃湄湍湎湔湖湘湛湟湫湮湾湿溃溅溆溉溏源溘溜溟溢溥溧溪溯溱溲溴溶溷溺溻溽滁滂滇滋滏滑滓滔滕滗滚滞滟滠满滢滤滥滦滨滩滴滹漂漆漉漏漓演漕漠漤漩漪漫漭漯漱漳漶漾潆潇潋潍潘潜潞潢潦潭潮潲潴潸潺潼澄澈澉澌澍澎澜澡澧澳澶澹激濂濉濑濒濞濠濡濮濯瀑瀚瀛瀣瀵瀹灌灏灞火灭灯灰灵灶灸灼灾灿炀炅炉炊炎炒炔炕炖炙炜炝炫炬炭炮炯炱炳炷炸点炻炼炽烀烁烂烃烈烊烘烙烛烟烤烦烧烨烩烫烬热烯烷烹烽焉焊焐焓焕焖焘焙焚焦焯焰焱然煅煊煌煎煜煞煤煦照煨煮煲煳煸煺煽熄熊熏熔熘熙熟熠熨熬熵熹燃燎燔燕燠燥燧燮燹爆爝爨爪爬爰爱爵父爷爸爹爻爽爿片版牌牍牒牖牙牛牝牟牡牢牦牧物牮牯牲牵特牺牾犀犁犄犊犋犍犏犒犟犬犯犰犴状犷犸犹狁狂狃狄狈狍狎狐狒狗狙狞狠狡狨狩独狭狮狯狰狱狲狳狴狷狸狺狻狼猁猃猊猎猕猖猗猛猜猝猞猡猢猥猩猪猫猬献猱猴猷猸猹猾猿獍獐獒獗獠獬獭獯獾玄率玉王玎玑玖玛玢玩玫玮环现玲玳玷玺玻珀珂珈珉珊珍珏珐珑珙珞珠珥珧珩班珲球琅理琉琏琐琚琛琢琥琦琨琪琬琮琰琳琴琵琶琼瑁瑕瑗瑙瑚瑛瑜瑞瑟瑭瑰瑶瑾璀璁璃璇璋璎璐璜璞璧璨璩瓒瓜瓞瓠瓢瓣瓤瓦瓮瓯瓴瓶瓷瓿甄甏甑甓甘甙甚甜生甥用甩甫甬甭田由甲申电男甸町画甾畀畅畈畋界畎畏畔留畚畛畜略畦番畲畴畸畹畿疃疆疋疏疑疔疖疗疙疚疝疟疠疡疣疤疥疫疬疮疯疰疱疲疳疴疵疸疹疼疽疾痂痃痄病症痈痉痊痍痒痔痕痘痛痞痢痣痤痦痧痨痪痫痰痱痴痹痼痿瘀瘁瘃瘅瘊瘌瘐瘗瘘瘙瘛瘟瘠瘢瘤瘥瘦瘩瘪瘫瘭瘰瘳瘴瘵瘸瘼瘾瘿癀癃癌癍癔癖癜癞癣癫癯癸登白百皂的皆皇皈皋皎皑皓皖皙皤皮皱皲皴皿盂盅盆盈益盍盎盏盐监盒盔盖盗盘盛盟盥目盯盱盲直相盹盼盾省眄眇眈眉看眍眙眚真眠眢眦眨眩眭眯眵眶眷眸眺眼着睁睃睇睐睑睚睛睡睢督睥睦睨睫睬睹睽睾睿瞀瞄瞅瞌瞍瞎瞑瞒瞟瞠瞢瞥瞧瞩瞪瞬瞰瞳瞵瞻瞽瞿矍矗矛矜矢矣知矧矩矫矬短矮石矶矸矽矾矿砀码砂砉砌砍砑砒研砖砗砘砚砜砝砟砣砥砧砭砰破砷砸砹砺砻砼砾础硅硇硌硎硐硒硕硖硗硝硪硫硬硭确硷硼碇碉碌碍碎碑碓碗碘碚碛碜碟碡碣碥碧碰碱碲碳碴碹碾磁磅磉磊磋磐磔磕磙磨磬磲磴磷磺礁礅礓礞礤礴示礻礼社祀祁祆祈祉祓祖祗祚祛祜祝神祟祠祢祥祧票祭祯祷祸祺禀禁禄禅禊福禚禧禳禹禺离禽禾秀私秃秆秉秋种科秒秕秘租秣秤秦秧秩秫秭积称秸移秽稀稂稆程稍税稔稗稚稞稠稣稳稷稻稼稽稿穆穑穗穰穴究穷穸穹空穿窀突窃窄窈窍窑窒窕窖窗窘窜窝窟窠窥窦窨窬窭窳窿立竖站竞竟章竣童竦竭端竹竺竽竿笃笄笆笈笊笋笏笑笔笕笙笛笞笠笤笥符笨笪笫第笮笱笳笸笺笼笾筅筇等筋筌筏筐筑筒答策筘筚筛筝筠筢筮筱筲筵筷筹筻签简箅箍箐箔箕算箜管箢箦箧箨箩箪箫箬箭箱箴箸篁篆篇篌篑篓篙篚篝篡篥篦篪篮篱篷篼篾簇簋簌簏簖簟簦簧簪簸簿籀籁籍米籴类籼籽粉粑粒粕粗粘粜粝粞粟粤粥粪粮粱粲粳粹粼粽精糁糅糇糈糊糌糍糕糖糗糙糜糟糠糨糯系紊素索紧紫累絮絷綦綮縻繁繇纂纛纠纡红纣纤纥约级纨纩纪纫纬纭纯纰纱纲纳纵纶纷纸纹纺纽纾线绀绁绂练组绅细织终绉绊绋绌绍绎经绐绑绒结绔绕绗绘给绚绛络绝绞统绠绡绢绣绥绦继绨绩绪绫续绮绯绰绲绳维绵绶绷绸绺绻综绽绾绿缀缁缂缃缄缅缆缇缈缉缌缎缏缑缒缓缔缕编缗缘缙缚缛缜缝缟缠缡缢缣缤缥缦缧缨缩缪缫缬缭缮缯缰缱缲缳缴缵缶缸缺罂罄罅罐网罔罕罗罘罚罟罡罢罨罩罪置罱署罴罹罾羁羊羌美羔羚羝羞羟羡群羧羯羰羲羸羹羼羽羿翁翅翊翌翎翔翕翘翟翠翡翥翦翩翮翰翱翳翻翼耀老考耄者耆耋而耍耐耒耔耕耖耗耘耙耜耠耢耥耦耧耨耩耪耱耳耵耶耷耸耻耽耿聂聃聆聊聋职聍聒联聘聚聩聪聱聿肃肄肆肇肉肋肌肓肖肘肚肛肝肟肠股肢肤肥肩肪肫肭肮肯肱育肴肷肺肼肽肾肿胀胁胂胃胄胆背胍胎胖胗胙胚胛胜胝胞胡胤胥胧胨胩胪胫胬胭胯胰胱胲胳胴胶胸胺胼能脂脆脉脊脍脎脏脐脑脒脓脔脖脘脚脞脬脯脱脲脶脸脾腆腈腊腋腌腐腑腓腔腕腙腚腠腥腧腩腭腮腰腱腴腹腺腻腼腽腾腿膀膂膈膊膏膑膘膛膜膝膦膨膪膳膺膻臀臁臂臃臆臊臌臣臧自臬臭至致臻臼臾舀舁舂舄舅舆舌舍舐舒舔舛舜舞舟舡舢舣舨航舫般舰舱舳舴舵舶舷舸船舻舾艄艇艋艘艚艟艨艮良艰色艳艴艺艽艾艿节芄芈芊芋芍芎芏芑芒芗芘芙芜芝芟芡芥芦芨芩芪芫芬芭芮芯芰花芳芴芷芸芹芽芾苁苄苇苈苊苋苌苍苎苏苑苒苓苔苕苗苘苛苜苞苟苠苡苣苤若苦苫苯英苴苷苹苻茁茂范茄茅茆茈茉茌茎茏茑茔茕茗茚茛茜茧茨茫茬茭茯茱茳茴茵茶茸茹茼荀荃荆荇草荏荐荑荒荔荚荛荜荞荟荠荡荣荤荥荦荧荨荩荪荫荬荭药荷荸荻荼荽莅莆莉莎莒莓莘莛莜莞莠莨莩莪莫莰莱莲莳莴莶获莸莹莺莼莽菀菁菅菇菊菌菏菔菖菘菜菝菟菠菡菥菩菪菰菱菲菹菽萁萃萄萋萌萍萎萏萑萘萜萝萤营萦萧萨萱萸萼落葆葑著葚葛葜葡董葩葫葬葭葱葳葵葶葸葺蒂蒇蒈蒉蒋蒌蒎蒗蒙蒜蒡蒯蒲蒴蒸蒹蒺蒽蒿蓁蓄蓉蓊蓍蓐蓑蓓蓖蓝蓟蓠蓣蓥蓦蓬蓰蓼蓿蔌蔑蔓蔗蔚蔟蔡蔫蔬蔷蔸蔹蔺蔻蔼蔽蕃蕈蕉蕊蕖蕙蕞蕤蕨蕲蕴蕹蕺蕻蕾薄薅薇薏薛薜薤薨薪薮薯薰薷薹藁藉藏藐藓藕藜藤藩藻藿蘅蘑蘖蘧蘩蘸蘼虎虏虐虑虔虚虞虢虫虬虮虱虹虺虻虼虽虾虿蚀蚁蚂蚊蚋蚌蚍蚓蚕蚜蚝蚣蚤蚧蚨蚩蚬蚯蚰蚱蚴蚶蚺蛀蛄蛆蛇蛉蛊蛋蛎蛏蛐蛑蛔蛘蛙蛛蛞蛟蛤蛩蛭蛮蛰蛱蛲蛳蛴蛸蛹蛾蜀蜂蜃蜇蜈蜉蜊蜍蜒蜓蜕蜗蜘蜚蜜蜞蜡蜢蜣蜥蜩蜮蜱蜴蜷蜻蜾蜿蝇蝈蝉蝌蝎蝓蝗蝙蝠蝣蝤蝥蝮蝰蝴蝶蝻蝼蝽蝾螂螃螅螈螋融螗螟螨螫螬螭螯螳螵螺螽蟀蟆蟊蟋蟑蟒蟛蟠蟥蟪蟮蟹蟾蠃蠊蠓蠕蠖蠡蠢蠲蠹蠼血衄衅行衍衔街衙衡衢衣补表衩衫衬衮衰衲衷衽衾衿袁袂袄袅袈袋袍袒袖袜袢袤被袭袱袼裁裂装裆裉裎裒裔裕裘裙裟裢裣裤裥裨裰裱裳裴裸裹裼裾褂褊褐褒褓褙褚褛褡褥褪褫褰褴褶襁襄襞襟襦襻西要覃覆见观规觅视觇览觉觊觋觌觎觏觐觑角觖觚觜觞解觥触觫觯觳言訇訾詈詹誉誊誓謇警譬计订讣认讥讦讧讨让讪讫训议讯记讲讳讴讵讶讷许讹论讼讽设访诀证诂诃评诅识诈诉诊诋诌词诎诏译诒诓诔试诖诗诘诙诚诛诜话诞诟诠诡询诣诤该详诧诨诩诫诬语诮误诰诱诲诳说诵请诸诹诺读诼诽课诿谀谁谂调谄谅谆谇谈谊谋谌谍谎谏谐谑谒谓谔谕谖谗谙谚谛谜谝谟谠谡谢谣谤谥谦谧谨谩谪谫谬谭谮谯谰谱谲谳谴谵谶谷豁豆豇豉豌豕豚象豢豪豫豳豸豹豺貂貅貉貊貌貔貘贝贞负贡财责贤败账货质贩贪贫贬购贮贯贰贱贲贳贴贵贶贷贸费贺贻贼贽贾贿赀赁赂赃资赅赆赇赈赉赊赋赌赍赎赏赐赓赔赖赘赙赚赛赜赝赞赠赡赢赣赤赦赧赫赭走赳赴赵赶起趁趄超越趋趑趔趟趣趱足趴趵趸趺趼趾趿跃跄跆跋跌跎跏跑跖跗跚跛距跞跟跣跤跨跪跬路跳践跷跸跹跺跻跽踅踉踊踌踏踔踝踞踟踢踣踩踪踬踮踯踱踵踹踺踽蹀蹁蹂蹄蹇蹈蹉蹊蹋蹑蹒蹙蹦蹩蹬蹭蹯蹰蹲蹴蹶蹼蹿躁躅躇躏躐躔躜躞身躬躯躲躺车轧轨轩轫转轭轮软轰轱轲轳轴轵轶轷轸轺轻轼载轾轿辁辂较辄辅辆辇辈辉辊辋辍辎辏辐辑输辔辕辖辗辘辙辚辛辜辞辟辣辨辩辫辰辱边辽达迁迂迄迅过迈迎运近迓返迕还这进远违连迟迢迤迥迦迨迩迪迫迭迮述迷迸迹追退送适逃逄逅逆选逊逋逍透逐逑递途逖逗通逛逝逞速造逡逢逦逭逮逯逵逶逸逻逼逾遁遂遄遇遍遏遐遑遒道遗遘遛遢遣遥遨遭遮遴遵遽避邀邂邃邈邋邑邓邕邗邙邛邝邡邢那邦邪邬邮邯邰邱邳邴邵邶邸邹邺邻邾郁郄郅郇郊郎郏郐郑郓郗郛郜郝郡郢郦郧部郫郭郯郴郸都郾鄂鄄鄙鄞鄢鄣鄯鄱鄹酃酆酉酊酋酌配酎酏酐酒酗酚酝酞酡酢酣酤酥酩酪酬酮酯酰酱酲酴酵酶酷酸酹酽酾酿醅醇醉醋醌醍醐醑醒醚醛醢醪醭醮醯醴醵醺采釉释里重野量金釜鉴銎銮鋈錾鍪鎏鏊鏖鐾鑫钆钇针钉钊钋钌钍钎钏钐钒钓钔钕钗钙钚钛钜钝钞钟钠钡钢钣钤钥钦钧钨钩钪钫钬钭钮钯钰钱钲钳钴钵钷钹钺钻钼钽钾钿铀铁铂铃铄铅铆铈铉铊铋铌铍铎铐铑铒铕铗铘铙铛铜铝铞铟铠铡铢铣铤铥铧铨铩铪铫铬铭铮铯铰铱铲铳铴铵银铷铸铹铺铼铽链铿销锁锂锃锄锅锆锇锈锉锊锋锌锎锏锐锑锒锓锔锕锖锗锘错锚锛锝锞锟锡锢锣锤锥锦锨锩锪锫锬锭键锯锰锱锲锴锵锶锷锸锹锺锻锾锿镀镁镂镄镅镆镇镉镊镌镍镎镏镐镑镒镓镔镖镗镘镛镜镝镞镡镢镣镤镥镦镧镨镩镪镫镬镭镯镰镱镲镳镶长门闩闪闫闭问闯闰闱闲闳间闵闶闷闸闹闺闻闼闽闾阀阁阂阃阄阅阆阈阉阊阋阌阍阎阏阐阑阒阔阕阖阗阙阚阜队阡阢阪阮阱防阳阴阵阶阻阼阽阿陀陂附际陆陇陈陉陋陌降限陔陕陛陟陡院除陧陨险陪陬陲陴陵陶陷隅隆隈隋隍随隐隔隗隘隙障隧隰隳隶隼隽难雀雁雄雅集雇雉雌雍雎雏雒雕雠雨雩雪雯雳零雷雹雾需霁霄霆震霈霉霍霎霏霓霖霜霞霪霭霰露霸霹霾青靓靖静靛非靠靡面靥革靳靴靶靼鞅鞋鞍鞑鞒鞘鞠鞣鞫鞭鞯鞲鞴韦韧韩韪韫韬韭音韵韶页顶顷顸项顺须顼顽顾顿颀颁颂颃预颅领颇颈颉颊颌颍颏颐频颓颔颖颗题颚颛颜额颞颟颠颡颢颤颥颦颧风飑飒飓飕飘飙飚飞食飧飨餍餐餮饔饕饥饧饨饩饪饫饬饭饮饯饰饱饲饴饵饶饷饺饼饽饿馀馁馄馅馆馇馈馊馋馍馏馐馑馒馓馔馕首馗馘香馥馨马驭驮驯驰驱驳驴驵驶驷驸驹驺驻驼驽驾驿骀骁骂骄骅骆骇骈骊骋验骏骐骑骒骓骖骗骘骚骛骜骝骞骟骠骡骢骣骤骥骧骨骰骶骷骸骺骼髀髁髂髅髋髌髑髓高髡髦髫髭髯髹髻鬃鬈鬏鬓鬟鬣鬯鬲鬻鬼魁魂魃魄魅魇魈魉魍魏魑魔鱼鱿鲁鲂鲅鲆鲇鲈鲋鲍鲎鲐鲑鲔鲚鲛鲜鲞鲟鲠鲡鲢鲣鲤鲥鲦鲧鲨鲩鲫鲭鲮鲰鲱鲲鲳鲴鲵鲷鲸鲺鲻鲼鲽鳃鳄鳅鳆鳇鳊鳌鳍鳎鳏鳐鳓鳔鳕鳖鳗鳘鳙鳜鳝鳞鳟鳢鸟鸠鸡鸢鸣鸥鸦鸨鸩鸪鸫鸬鸭鸯鸱鸲鸳鸵鸶鸷鸸鸹鸺鸽鸾鸿鹁鹂鹃鹄鹅鹆鹇鹈鹉鹊鹋鹌鹎鹏鹑鹕鹗鹘鹚鹛鹜鹞鹣鹤鹦鹧鹨鹩鹪鹫鹬鹭鹰鹱鹳鹿麂麇麈麋麒麓麝麟麦麸麻麽麾黄黉黍黎黏黑黔默黛黜黝黟黠黢黥黧黩黯黹黻黼黾鼋鼍鼎鼐鼓鼗鼙鼠鼢鼬鼯鼷鼹鼻鼾齐齑齿龀龃龄龅龆龇龈龉龊龋龌龙龚龛龟龠",** 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|  | **'characters': '0123456789!"#$%&\'()\*+,-./:;<=>?@[\\]^\_`{|}~ abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZぁあぃいぅうぇえぉおかがきぎくぐけげこごさざしじすずせぜそぞただちぢっつづてでとどなにぬねのはばぱひびぴふぶぷへべぺほぼぽまみむめもゃやゅゆょよらりるれろわゐをんゝゞァアィイゥウェエォオカガキギクグケゲコゴサザシジスズセゼソゾタダチヂッツヅテデトドナニヌネノハバパヒビピフブプヘベペホボポマミムメモャヤュユョヨラリルレロヮワヰヱヲンヴヵヶ・ー一丁七万丈三上下不与丑且世丘丙丞両並中串丸丹主乃久之乍乎乏乗乙九乞也乱乳乾亀了予争事二云互五井亘亙亜亡交亥亦亨享京亭亮人什仁仇今介仏仔仕他付仙代令以仮仰仲件任企伊伍伎伏伐休会伝伯伴伶伸伺似伽佃但位低住佐佑体何余作佳併佼使侃例侍供依侠価侮侯侵侶便係促俄俊俗保信俣修俳俵俸俺倉個倍倒倖候借倣値倦倫倭倶倹偉偏停健偲側偵偶偽傍傑傘備催傭債傷傾僅働像僑僕僚僧僻儀億儒償優儲允元兄充兆兇先光克免兎児党兜入全八公六共兵其具典兼内円冊再冒冗写冠冥冨冬冴冶冷凄准凋凌凍凝凡処凪凱凶凸凹出函刀刃分切刈刊刑列初判別利到制刷券刺刻剃則削前剖剛剣剤剥副剰割創劃劇劉力功加劣助努励労効劾勃勅勇勉動勘務勝募勢勤勧勲勾勿匁匂包化北匝匠匡匹区医匿十千升午半卑卒卓協南単博卜占卯印危即却卵卸卿厄厘厚原厨厩厭厳去参又叉及友双反収叔取受叙叛叡叢口古句叩只叫召可台叱史右叶号司吃各合吉吊同名后吏吐向君吟吠否含吸吹吻吾呂呆呈呉告呑周呪味呼命咋和咲咳咽哀品哉員哨哲唄唆唇唐唯唱唾商問啓善喉喋喚喜喝喧喪喫喬喰営嗣嘆嘉嘗嘘嘩嘱噂噌噛器噴嚇嚢囚四回因団困囲図固国圃圏園土圧在圭地坂均坊坐坑坦坪垂型垢垣埋城埜域埠埴執培基埼堀堂堅堆堕堤堪堰報場堵堺塀塁塊塑塔塗塘塚塞塩填塵塾境墓増墜墨墳墾壁壇壊壌壕士壬壮声壱売壷変夏夕外多夜夢大天太夫央失夷奄奇奈奉奏契奔套奥奨奪奮女奴好如妃妄妊妓妖妙妥妨妬妹妻妾姉始姐姑姓委姥姦姪姫姶姻姿威娃娘娠娩娯娼婁婆婚婦婿媒媛嫁嫉嫌嫡嬉嬢嬰子孔字存孜孝孟季孤学孫宅宇守安宋完宍宏宕宗官宙定宛宜宝実客宣室宥宮宰害宴宵家容宿寂寄寅密富寒寓寛寝察寡寧審寮寵寸寺対寿封専射将尉尊尋導小少尖尚尤尭就尺尻尼尽尾尿局居屈届屋屍屑展属屠層履屯山岐岡岩岬岱岳岸峠峡峨峯峰島峻崇崎崖崩嵐嵩嵯嶋嶺巌川州巡巣工左巧巨差己巳巴巷巻巽巾市布帆希帖帝帥師席帯帰帳常帽幅幌幕幡幣干平年幸幹幻幼幽幾庁広庄庇床序底店庚府度座庫庭庵庶康庸廃廉廊廓廟廠延廷建廻廼廿弁弄弊式弐弓弔引弘弛弟弥弦弧弱張強弼弾彊当形彦彩彪彫彬彰影役彼往征径待律後徐徒従得御復循微徳徴徹徽心必忌忍志忘忙応忠快念忽怒怖怜思怠急性怨怪怯恋恐恒恕恢恥恨恩恭息恰恵悉悌悔悟悠患悦悩悪悲悶悼情惇惑惚惜惟惣惨惰想惹愁愉意愚愛感慈態慌慎慕慢慣慧慨慮慰慶憂憎憐憤憧憩憲憶憾懇懐懲懸戊戎成我戒或戚戟戦戯戴戸戻房所扇扉手才打払托扮扱扶批承技抄把抑投抗折抜択披抱抵抹押抽担拍拐拒拓拘拙招拝拠拡括拭拳拶拷拾持指按挑挙挟挨挫振挺挽挿捉捌捕捗捜捧捨据捲捷捻掃授掌排掘掛掠採探接控推掩措掲掴掻揃描提揖揚換握揮援揺損搬搭携搾摂摘摩摸摺撃撒撤撫播撮撰撲撹擁操擢擦擬擾支改攻放政故敏救敗教敢散敦敬数整敵敷文斉斌斎斐斑斗料斜斡斤斥斧斬断斯新方於施旅旋族旗既日旦旧旨早旬旭旺昂昆昇昌明昏易昔星映春昧昨昭是昼時晃晋晒晦晩普景晴晶智暁暇暑暖暗暢暦暫暮暴曇曙曜曝曲曳更書曹曽曾替最月有朋服朔朕朗望朝期木未末本札朱朴机朽杉李杏材村杖杜束条来杭杯東杵松板析枕林枚果枝枠枢枯架柄柊柏某柑染柔柘柚柱柳柴柵査柿栂栃栄栓栖栗校栢株核根格栽桁桂桃案桐桑桓桔桜桝桟桧桶梁梅梓梗梢梧梨梯械梱梶梼棄棋棒棚棟森棲棺椀椅椋植椎椙検椿楊楓楕楚楠楢業楯極楼楽概榊榎榛構槌槍様槙槻槽樋標樟模権横樫樵樹樺樽橋橘機橡橿檀檎櫓櫛欄欠次欣欧欲欺欽款歌歓止正此武歩歪歯歳歴死殆殉殊残殖殴段殺殻殿毅母毎毒比毘毛氏民気水氷永氾汀汁求汎汐汗汚汝江池汰汲決汽沃沈沌沓沖沙没沢沫河沸油治沼沿況泉泊泌法泡波泣泥注泰泳洋洗洛洞津洩洪洲活派流浄浅浜浦浩浪浬浮浴海浸消涌涙涛涜涯液涼淀淑淘淡淫深淳淵混添清渇済渉渋渓渚減渠渡渥渦温測港湊湖湘湛湧湯湾湿満源準溜溝溢溶溺滅滋滑滝滞滴漁漂漆漉漏演漕漠漢漣漫漬漸潔潜潟潤潮潰澄澗澱激濁濃濠濡濫濯瀕瀞瀧瀬灘火灯灰灸灼災炉炊炎炭点為烈烏焔焚無焦然焼煉煎煙煤照煩煮煽熊熟熱燃燈燐燕燥燦燭爆爪爵父爺爽爾片版牌牒牙牛牝牟牡牢牧物牲特牽犀犠犬犯状狂狐狗狙狛狩独狭狸狼猛猟猪猫献猶猷猿獄獅獣獲玄率玉王玖玩玲珂珊珍珠珪班現球理琉琢琳琴琵琶瑚瑛瑞瑠瑳璃環璽瓜瓢瓦瓶甘甚甜生産甥用甫田由甲申男町画界畏畑畔留畜畝畠畢略番異畳畷畿疋疎疏疑疫疲疹疾病症痕痘痛痢痩痴療癌癒癖発登白百的皆皇皐皮皿盃盆盈益盗盛盟監盤目盲直相盾省眉看県真眠眺眼着睡督睦瞬瞭瞳矛矢知矩短矯石砂研砕砦砧砲破砺硝硫硬碁碍碑碓碕碗碧碩確磁磐磨磯礁礎示礼社祁祇祈祉祐祖祝神祢祥票祭祷禁禄禅禍禎福禰禽禾禿秀私秋科秒秘租秤秦秩称移稀程税稔稗稚稜種稲稼稽稿穀穂穆積穏穣穫穴究空穿突窃窄窒窓窟窪窮窯窺立竜章竣童竪端競竹竺竿笈笑笛笠符第笹筆筈等筋筑筒答策箇箕算管箪箭箱箸節範篇築篠篤篭簡簾簿籍米粉粋粒粕粗粘粛粟粥粧精糊糖糞糟糠糧糸系糾紀約紅紋納紐純紗紘紙級紛素紡索紫累細紳紹紺終組経結絞絡絢給統絵絶絹継続綜綬維綱網綴綻綾綿緊緋総緑緒線締編緩緯練縁縄縛縞縦縫縮績繁繊繋繍織繕繭繰纂纏缶罪置罰署罵罷羅羊美群羨義羽翁翌習翠翰翻翼耀老考者而耐耕耗耳耶耽聖聞聡聯聴職聾肇肉肋肌肖肘肝股肢肥肩肪肯育肴肺胃胆背胎胞胡胤胴胸能脂脅脆脇脈脊脚脱脳脹腎腐腔腕腫腰腸腹腺腿膏膚膜膝膨膳膿臆臓臣臥臨自臭至致臼興舌舎舗舘舛舜舞舟航般舵舶舷船艇艦良色艶芋芙芝芥芦芭芯花芳芸芹芽苅苑苔苗苛若苦苫英茂茄茅茎茜茨茶草荊荏荒荘荷荻莞莫莱菅菊菌菓菖菜菟菩華菰菱萄萌萎萩萱落葉葎著葛葡董葦葬葱葵葺蒋蒐蒔蒙蒜蒲蒸蒼蓄蓉蓋蓑蓬蓮蔑蔓蔚蔦蔭蔵蔽蕃蕉蕊蕗蕨蕩蕪薄薙薦薩薪薫薬薮藁藍藤藩藻蘇蘭虎虐虚虜虞虫虹虻蚊蚕蛇蛋蛍蛭蛮蛸蜂蜘蜜蝉蝋蝕蝦蝶融螺蟹蟻血衆行術街衛衝衡衣表衰衷衿袈袋袖被袴裁裂装裏裕補裟裡裳裸製裾複褐褒襖襟襲西要覆覇見規視覗覚覧親観角解触言訂計訊討訓託記訟訣訪設許訳訴診註証詐詔評詞詠詣試詩詫詮詰話該詳誇誉誌認誓誕誘語誠誤説読誰課誹誼調談請諌諏諒論諜諦諭諮諸諺諾謀謁謂謎謙講謝謡謬謹識譜警議譲護讃讐谷豆豊豚象豪豹貌貝貞負財貢貧貨販貫責貯貰貴買貸費貼貿賀賂賃賄資賊賑賓賛賜賞賠賢賦質賭購贈贋赤赦赫走赴起超越趣趨足距跡跨路跳践踊踏蹄蹟蹴躍身躯車軌軍軒軟転軸軽較載輔輝輩輪輯輸輿轄轍轟辛辞辰辱農辺辻込辿迂迄迅迎近返迦迫迭述迷追退送逃逆透逐逓途逗這通逝速造逢連逮週進逸逼遁遂遅遇遊運遍過道達違遜遠遡遣遥適遭遮遵遷選遺遼避還邑那邦邪邸郁郊郎郡部郭郵郷都鄭酉酋酌配酎酒酔酢酪酬酵酷酸醇醍醐醒醜醤醸采釈里重野量金釘釜針釣釧鈍鈴鈷鉄鉛鉢鉱鉾銀銃銅銑銘銚銭鋒鋪鋭鋲鋳鋸鋼錆錐錘錠錦錨錫錬錯録鍋鍔鍛鍬鍵鍾鎌鎖鎗鎚鎧鎮鏑鏡鐘鐸鑑鑓長門閃閉開閏閑間関閣閤閥閲闇闘阜阪防阻阿陀附降限陛院陣除陥陪陰陳陵陶陸険陽隅隆隈隊階随隔隙際障隠隣隷隻隼雀雁雄雅集雇雌雑雛離難雨雪雫雰雲零雷電需震霊霜霞霧露青靖静非面革靭靴鞄鞍鞘鞠鞭韓韮音韻響頁頂頃項順須預頑頒頓頗領頚頬頭頴頻頼題額顎顔顕願顛類顧風飛食飢飯飲飴飼飽飾餅養餌餐餓館饗首香馨馬馳馴駁駄駅駆駈駐駒駕駿騎騒験騨騰驚骨骸髄高髪髭鬼魁魂魅魔魚魯鮎鮒鮫鮭鮮鯉鯖鯨鰐鰭鰻鱒鱗鳥鳩鳳鳴鳶鴎鴛鴨鴻鵜鵠鵡鵬鶏鶴鷲鷹鷺鹸鹿麓麗麟麦麹麺麻麿黄黒黙黛鼎鼓鼠鼻齢龍'** |
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|  | **'characters': " !\"#$%&'()\*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\\]^\_`abcdefghijklmnopqrstuvwxyz{|}~。〈〉《》「」『』一丁七万丈三上下不与丐丑专且丕世丘丙业丛东丝丞丢两严丧个丫中丰串临丸丹为主丽举乃久么义之乌乍乎乏乐乒乓乔乖乘乙乜九乞也习乡书乩买乱乳乾了予争事二亍于亏云互亓五井亘亚些亟亡亢交亥亦产亨亩享京亭亮亲亳亵人亿什仁仂仃仄仅仆仇仉今介仍从仑仓仔仕他仗付仙仞仟仡代令以仨仪仫们仰仲仳仵件价任份仿企伉伊伍伎伏伐休众优伙会伛伞伟传伢伤伦伧伪伫伯估伴伶伸伺似伽佃但位低住佐佑体何佗佘余佚佛作佝佞佟你佣佤佥佩佬佯佰佳佴佶佻佼佾使侃侄侈侉例侍侏侑侔侗供依侠侣侥侦侧侨侩侪侬侮侯侵便促俄俅俊俎俏俐俑俗俘俚俜保俞俟信俣俦俨俩俪俭修俯俱俳俸俺俾倌倍倏倒倔倘候倚倜借倡倥倦倨倩倪倬倭债值倾偃假偈偌偎偏偕做停健偬偶偷偻偾偿傀傅傈傍傣傥傧储傩催傲傻像僖僚僦僧僬僭僮僳僵僻儆儇儋儒儡儿兀允元兄充兆先光克免兑兔兕兖党兜兢入全八公六兮兰共关兴兵其具典兹养兼兽冀冁内冈冉册再冒冕冗写军农冠冢冤冥冬冯冰冱冲决况冶冷冻冼冽净凄准凇凉凋凌减凑凛凝几凡凤凫凭凯凰凳凶凸凹出击凼函凿刀刁刃分切刈刊刍刎刑划刖列刘则刚创初删判刨利别刭刮到刳制刷券刹刺刻刽刿剀剁剂剃削剌前剐剑剔剖剜剞剡剥剧剩剪副割剽剿劁劂劈劐劓力劝办功加务劢劣动助努劫劬劭励劲劳劾势勃勇勉勋勐勒勖勘募勤勰勺勾勿匀包匆匈匍匏匐匕化北匙匝匠匡匣匦匪匮匹区医匾匿十千卅升午卉半华协卑卒卓单卖南博卜卞卟占卡卢卣卤卦卧卫卮卯印危即却卵卷卸卺卿厂厄厅历厉压厌厍厕厘厚厝原厢厣厥厦厨厩厮去县叁参又叉及友双反发叔取受变叙叛叟叠口古句另叨叩只叫召叭叮可台叱史右叵叶号司叹叻叼叽吁吃各吆合吉吊同名后吏吐向吒吓吕吗君吝吞吟吠吡吣否吧吨吩含听吭吮启吱吲吴吵吸吹吻吼吾呀呃呆呈告呋呐呓呔呕呖呗员呙呛呜呢呤呦周呱呲味呵呶呷呸呻呼命咀咂咄咆咋和咎咏咐咒咔咕咖咙咚咛咝咣咤咦咧咨咩咪咫咬咭咯咱咳咴咸咻咽咿哀品哂哄哆哇哈哉哌响哎哏哐哑哓哔哕哗哙哚哝哞哟哥哦哧哨哩哪哭哮哲哳哺哼哽哿唁唆唇唉唏唐唑唔唛唠唢唣唤唧唪唬售唯唱唳唷唼唾唿啁啃啄商啉啊啐啕啖啜啡啤啥啦啧啪啬啭啮啵啶啷啸啻啼啾喀喁喂喃善喇喈喉喊喋喏喑喔喘喙喜喝喟喧喱喳喵喷喹喻喽喾嗄嗅嗉嗌嗍嗑嗒嗓嗔嗖嗜嗝嗟嗡嗣嗤嗥嗦嗨嗪嗫嗬嗯嗲嗳嗵嗷嗽嗾嘀嘁嘈嘉嘌嘎嘏嘘嘛嘞嘟嘣嘤嘧嘬嘭嘱嘲嘴嘶嘹嘻嘿噌噍噎噔噗噙噜噢噤器噩噪噫噬噱噶噻噼嚅嚆嚎嚏嚓嚣嚯嚷嚼囊囔囚四囝回囟因囡团囤囫园困囱围囵囹固国图囿圃圄圆圈圉圊圜土圣在圩圪圬圭圮圯地圳圹场圻圾址坂均坊坌坍坎坏坐坑块坚坛坜坝坞坟坠坡坤坦坨坩坪坫坭坯坳坷坻坼垂垃垄垅垆型垌垒垓垛垠垡垢垣垤垦垧垩垫垭垮垲垸埂埃埋城埏埒埔埕埘埙埚埝域埠埤埭埯埴埸培基埽堂堆堇堋堍堑堕堙堞堠堡堤堪堰堵塄塌塍塑塔塘塞塥填塬塾墀墁境墅墉墒墓墙增墟墨墩墼壁壅壑壕壤士壬壮声壳壶壹处备复夏夔夕外夙多夜够夤夥大天太夫夭央夯失头夷夸夹夺夼奁奂奄奇奈奉奋奎奏契奔奕奖套奘奚奠奢奥女奴奶奸她好妁如妃妄妆妇妈妊妍妒妓妖妗妙妞妣妤妥妨妩妪妫妮妯妲妹妻妾姆姊始姐姑姒姓委姗姘姚姜姝姣姥姨姬姹姻姿威娃娄娅娆娇娈娉娌娑娓娘娜娟娠娣娥娩娱娲娴娶娼婀婆婉婊婕婚婢婧婪婴婵婶婷婺婿媒媚媛媪媲媳媵媸媾嫁嫂嫉嫌嫒嫔嫖嫘嫜嫠嫡嫣嫦嫩嫫嫱嬉嬖嬗嬴嬷孀子孑孓孔孕字存孙孚孛孜孝孟孢季孤孥学孩孪孬孰孱孳孵孺孽宁它宄宅宇守安宋完宏宓宕宗官宙定宛宜宝实宠审客宣室宥宦宪宫宰害宴宵家宸容宽宾宿寂寄寅密寇富寐寒寓寝寞察寡寤寥寨寮寰寸对寺寻导寿封射将尉尊小少尔尕尖尘尚尜尝尤尥尧尬就尴尸尹尺尻尼尽尾尿局屁层居屈屉届屋屎屏屐屑展屙属屠屡屣履屦屯山屹屺屿岁岂岈岌岍岐岑岔岖岗岘岙岚岛岢岣岩岫岬岭岱岳岵岷岸岿峁峄峋峒峙峡峤峥峦峨峪峭峰峻崂崃崆崇崎崔崖崛崞崤崦崧崩崭崮崴崽嵇嵊嵋嵌嵘嵛嵝嵩嵫嵬嵯嵴嶂嶙嶝嶷巅巍川州巡巢工左巧巨巩巫差巯己已巳巴巷巽巾币市布帅帆师希帏帐帑帔帕帖帘帙帚帛帜帝带帧席帮帱帷常帻帼帽幂幄幅幌幔幕幛幞幡幢干平年并幸幺幻幼幽广庀庄庆庇床庋序庐庑库应底庖店庙庚府庞废庠庥度座庭庳庵庶康庸庹庾廉廊廒廓廖廛廨廪延廷建廿开弁异弃弄弈弊弋式弑弓引弗弘弛弟张弥弦弧弩弭弯弱弹强弼彀归当录彖彗彘彝形彤彦彩彪彬彭彰影彳彷役彻彼往征徂径待徇很徉徊律後徐徒徕得徘徙徜御徨循徭微徵德徼徽心必忆忉忌忍忏忐忑忒忖志忘忙忝忠忡忤忧忪快忭忮忱念忸忻忽忾忿怀态怂怃怄怅怆怊怍怎怏怒怔怕怖怙怛怜思怠怡急怦性怨怩怪怫怯怵总怼怿恁恂恃恋恍恐恒恕恙恚恝恢恣恤恧恨恩恪恫恬恭息恰恳恶恸恹恺恻恼恽恿悃悄悉悌悍悒悔悖悚悛悝悟悠患悦您悫悬悭悯悱悲悴悸悻悼情惆惊惋惑惕惘惚惜惝惟惠惦惧惨惩惫惬惭惮惯惰想惴惶惹惺愀愁愆愈愉愍愎意愕愚感愠愣愤愦愧愫愿慈慊慌慎慑慕慝慢慧慨慰慵慷憋憎憔憝憧憨憩憬憷憾懂懈懊懋懑懒懦懵懿戆戈戊戋戌戍戎戏成我戒戕或戗战戚戛戟戡戢戥截戬戮戳戴户戽戾房所扁扃扇扈扉手扌才扎扑扒打扔托扛扣扦执扩扪扫扬扭扮扯扰扳扶批扼找承技抄抉把抑抒抓投抖抗折抚抛抟抠抡抢护报抨披抬抱抵抹抻押抽抿拂拄担拆拇拈拉拊拌拍拎拐拒拓拔拖拗拘拙拚招拜拟拢拣拥拦拧拨择括拭拮拯拱拳拴拶拷拼拽拾拿持挂指挈按挎挑挖挚挛挝挞挟挠挡挢挣挤挥挨挪挫振挲挹挺挽捂捃捅捆捉捋捌捍捎捏捐捕捞损捡换捣捧捩捭据捱捶捷捺捻掀掂掇授掉掊掌掎掏掐排掖掘掠探掣接控推掩措掬掭掮掰掳掴掷掸掺掼掾揄揆揉揍揎描提插揖揞揠握揣揩揪揭援揶揸揽揿搀搁搂搅搋搌搏搐搓搔搛搜搞搠搡搦搪搬搭搴携搽摁摄摅摆摇摈摊摒摔摘摞摧摩摭摸摹摺撂撄撅撇撑撒撕撖撙撞撤撩撬播撮撰撵撷撸撺撼擀擂擅操擎擐擒擘擞擢擤擦攀攉攒攘攥攫攮支收攸改攻放政故效敉敌敏救敕敖教敛敝敞敢散敦敫敬数敲整敷文斋斌斐斑斓斗料斛斜斟斡斤斥斧斩斫断斯新方於施旁旃旄旅旆旋旌旎族旒旖旗无既日旦旧旨早旬旭旮旯旰旱时旷旺昀昂昃昆昊昌明昏易昔昕昙昝星映春昧昨昭是昱昴昵昶昼显晁晃晋晌晏晒晓晔晕晖晗晚晟晡晤晦晨普景晰晴晶晷智晾暂暄暇暌暑暖暗暝暧暨暮暴暹暾曙曛曜曝曦曩曰曲曳更曷曹曼曾替最月有朊朋服朐朔朕朗望朝期朦木未末本札术朱朴朵机朽杀杂权杆杈杉杌李杏材村杓杖杜杞束杠条来杨杪杭杯杰杲杳杵杷杼松板极构枇枉枋析枕林枘枚果枝枞枢枣枥枧枨枪枫枭枯枰枳枵架枷枸柁柃柄柏某柑柒染柔柘柙柚柜柝柞柠柢查柩柬柯柰柱柳柴柽柿栀栅标栈栉栊栋栌栎栏树栓栖栗栝校栩株栲栳样核根格栽栾桀桁桂桃桄桅框案桉桊桌桎桐桑桓桔桕桠桡桢档桤桥桦桧桨桩桫桴桶桷梁梃梅梆梏梓梗梢梦梧梨梭梯械梳梵检棂棉棋棍棒棕棘棚棠棣森棰棱棵棹棺棼椁椅椋植椎椐椒椟椠椤椭椰椴椹椽椿楂楔楗楚楝楞楠楣楦楫楮楷楸楹楼榀概榄榆榇榈榉榍榔榕榛榜榧榨榫榭榱榴榷榻槁槊槌槎槐槔槛槟槠槭槲槽槿樊樗樘樟模樨横樯樱樵樽樾橄橇橐橘橙橛橡橥橱橹橼檀檄檎檐檑檗檠檩檫檬欠次欢欣欤欧欲欷欺款歃歆歇歉歌歙止正此步武歧歪歹死歼殁殂殃殄殆殇殉殊残殍殒殓殖殚殛殡殪殳殴段殷殿毁毂毅毋母每毒毓比毕毖毗毙毛毡毪毫毯毳毵毹毽氅氆氇氍氏氐民氓气氕氖氘氙氚氛氟氡氢氤氦氧氨氩氪氮氯氰氲水永氽汀汁求汆汇汉汊汐汔汕汗汛汜汝汞江池污汤汨汩汪汰汲汴汶汹汽汾沁沂沃沅沆沈沉沌沏沐沓沔沙沛沟没沣沤沥沦沧沩沪沫沭沮沱河沸油治沼沽沾沿泄泅泉泊泌泐泓泔法泖泗泛泞泠泡波泣泥注泪泫泮泯泰泱泳泵泷泸泺泻泼泽泾洁洄洇洋洌洎洒洗洙洚洛洞津洧洪洫洮洱洲洳洵洹活洼洽派流浃浅浆浇浈浊测浍济浏浑浒浓浔浙浚浜浞浠浣浦浩浪浮浯浴海浸浼涂涅消涉涌涎涑涓涔涕涛涝涞涟涠涡涣涤润涧涨涩涪涫涮涯液涵涸涿淀淄淅淆淇淋淌淑淖淘淙淝淞淠淡淤淦淫淬淮深淳混淹添淼清渊渌渍渎渐渑渔渖渗渚渝渠渡渣渤渥温渫渭港渲渴游渺湃湄湍湎湔湖湘湛湟湫湮湾湿溃溅溆溉溏源溘溜溟溢溥溧溪溯溱溲溴溶溷溺溻溽滁滂滇滋滏滑滓滔滕滗滚滞滟滠满滢滤滥滦滨滩滴滹漂漆漉漏漓演漕漠漤漩漪漫漭漯漱漳漶漾潆潇潋潍潘潜潞潢潦潭潮潲潴潸潺潼澄澈澉澌澍澎澜澡澧澳澶澹激濂濉濑濒濞濠濡濮濯瀑瀚瀛瀣瀵瀹灌灏灞火灭灯灰灵灶灸灼灾灿炀炅炉炊炎炒炔炕炖炙炜炝炫炬炭炮炯炱炳炷炸点炻炼炽烀烁烂烃烈烊烘烙烛烟烤烦烧烨烩烫烬热烯烷烹烽焉焊焐焓焕焖焘焙焚焦焯焰焱然煅煊煌煎煜煞煤煦照煨煮煲煳煸煺煽熄熊熏熔熘熙熟熠熨熬熵熹燃燎燔燕燠燥燧燮燹爆爝爨爪爬爰爱爵父爷爸爹爻爽爿片版牌牍牒牖牙牛牝牟牡牢牦牧物牮牯牲牵特牺牾犀犁犄犊犋犍犏犒犟犬犯犰犴状犷犸犹狁狂狃狄狈狍狎狐狒狗狙狞狠狡狨狩独狭狮狯狰狱狲狳狴狷狸狺狻狼猁猃猊猎猕猖猗猛猜猝猞猡猢猥猩猪猫猬献猱猴猷猸猹猾猿獍獐獒獗獠獬獭獯獾玄率玉王玎玑玖玛玢玩玫玮环现玲玳玷玺玻珀珂珈珉珊珍珏珐珑珙珞珠珥珧珩班珲球琅理琉琏琐琚琛琢琥琦琨琪琬琮琰琳琴琵琶琼瑁瑕瑗瑙瑚瑛瑜瑞瑟瑭瑰瑶瑾璀璁璃璇璋璎璐璜璞璧璨璩瓒瓜瓞瓠瓢瓣瓤瓦瓮瓯瓴瓶瓷瓿甄甏甑甓甘甙甚甜生甥用甩甫甬甭田由甲申电男甸町画甾畀畅畈畋界畎畏畔留畚畛畜略畦番畲畴畸畹畿疃疆疋疏疑疔疖疗疙疚疝疟疠疡疣疤疥疫疬疮疯疰疱疲疳疴疵疸疹疼疽疾痂痃痄病症痈痉痊痍痒痔痕痘痛痞痢痣痤痦痧痨痪痫痰痱痴痹痼痿瘀瘁瘃瘅瘊瘌瘐瘗瘘瘙瘛瘟瘠瘢瘤瘥瘦瘩瘪瘫瘭瘰瘳瘴瘵瘸瘼瘾瘿癀癃癌癍癔癖癜癞癣癫癯癸登白百皂的皆皇皈皋皎皑皓皖皙皤皮皱皲皴皿盂盅盆盈益盍盎盏盐监盒盔盖盗盘盛盟盥目盯盱盲直相盹盼盾省眄眇眈眉看眍眙眚真眠眢眦眨眩眭眯眵眶眷眸眺眼着睁睃睇睐睑睚睛睡睢督睥睦睨睫睬睹睽睾睿瞀瞄瞅瞌瞍瞎瞑瞒瞟瞠瞢瞥瞧瞩瞪瞬瞰瞳瞵瞻瞽瞿矍矗矛矜矢矣知矧矩矫矬短矮石矶矸矽矾矿砀码砂砉砌砍砑砒研砖砗砘砚砜砝砟砣砥砧砭砰破砷砸砹砺砻砼砾础硅硇硌硎硐硒硕硖硗硝硪硫硬硭确硷硼碇碉碌碍碎碑碓碗碘碚碛碜碟碡碣碥碧碰碱碲碳碴碹碾磁磅磉磊磋磐磔磕磙磨磬磲磴磷磺礁礅礓礞礤礴示礻礼社祀祁祆祈祉祓祖祗祚祛祜祝神祟祠祢祥祧票祭祯祷祸祺禀禁禄禅禊福禚禧禳禹禺离禽禾秀私秃秆秉秋种科秒秕秘租秣秤秦秧秩秫秭积称秸移秽稀稂稆程稍税稔稗稚稞稠稣稳稷稻稼稽稿穆穑穗穰穴究穷穸穹空穿窀突窃窄窈窍窑窒窕窖窗窘窜窝窟窠窥窦窨窬窭窳窿立竖站竞竟章竣童竦竭端竹竺竽竿笃笄笆笈笊笋笏笑笔笕笙笛笞笠笤笥符笨笪笫第笮笱笳笸笺笼笾筅筇等筋筌筏筐筑筒答策筘筚筛筝筠筢筮筱筲筵筷筹筻签简箅箍箐箔箕算箜管箢箦箧箨箩箪箫箬箭箱箴箸篁篆篇篌篑篓篙篚篝篡篥篦篪篮篱篷篼篾簇簋簌簏簖簟簦簧簪簸簿籀籁籍米籴类籼籽粉粑粒粕粗粘粜粝粞粟粤粥粪粮粱粲粳粹粼粽精糁糅糇糈糊糌糍糕糖糗糙糜糟糠糨糯系紊素索紧紫累絮絷綦綮縻繁繇纂纛纠纡红纣纤纥约级纨纩纪纫纬纭纯纰纱纲纳纵纶纷纸纹纺纽纾线绀绁绂练组绅细织终绉绊绋绌绍绎经绐绑绒结绔绕绗绘给绚绛络绝绞统绠绡绢绣绥绦继绨绩绪绫续绮绯绰绲绳维绵绶绷绸绺绻综绽绾绿缀缁缂缃缄缅缆缇缈缉缌缎缏缑缒缓缔缕编缗缘缙缚缛缜缝缟缠缡缢缣缤缥缦缧缨缩缪缫缬缭缮缯缰缱缲缳缴缵缶缸缺罂罄罅罐网罔罕罗罘罚罟罡罢罨罩罪置罱署罴罹罾羁羊羌美羔羚羝羞羟羡群羧羯羰羲羸羹羼羽羿翁翅翊翌翎翔翕翘翟翠翡翥翦翩翮翰翱翳翻翼耀老考耄者耆耋而耍耐耒耔耕耖耗耘耙耜耠耢耥耦耧耨耩耪耱耳耵耶耷耸耻耽耿聂聃聆聊聋职聍聒联聘聚聩聪聱聿肃肄肆肇肉肋肌肓肖肘肚肛肝肟肠股肢肤肥肩肪肫肭肮肯肱育肴肷肺肼肽肾肿胀胁胂胃胄胆背胍胎胖胗胙胚胛胜胝胞胡胤胥胧胨胩胪胫胬胭胯胰胱胲胳胴胶胸胺胼能脂脆脉脊脍脎脏脐脑脒脓脔脖脘脚脞脬脯脱脲脶脸脾腆腈腊腋腌腐腑腓腔腕腙腚腠腥腧腩腭腮腰腱腴腹腺腻腼腽腾腿膀膂膈膊膏膑膘膛膜膝膦膨膪膳膺膻臀臁臂臃臆臊臌臣臧自臬臭至致臻臼臾舀舁舂舄舅舆舌舍舐舒舔舛舜舞舟舡舢舣舨航舫般舰舱舳舴舵舶舷舸船舻舾艄艇艋艘艚艟艨艮良艰色艳艴艺艽艾艿节芄芈芊芋芍芎芏芑芒芗芘芙芜芝芟芡芥芦芨芩芪芫芬芭芮芯芰花芳芴芷芸芹芽芾苁苄苇苈苊苋苌苍苎苏苑苒苓苔苕苗苘苛苜苞苟苠苡苣苤若苦苫苯英苴苷苹苻茁茂范茄茅茆茈茉茌茎茏茑茔茕茗茚茛茜茧茨茫茬茭茯茱茳茴茵茶茸茹茼荀荃荆荇草荏荐荑荒荔荚荛荜荞荟荠荡荣荤荥荦荧荨荩荪荫荬荭药荷荸荻荼荽莅莆莉莎莒莓莘莛莜莞莠莨莩莪莫莰莱莲莳莴莶获莸莹莺莼莽菀菁菅菇菊菌菏菔菖菘菜菝菟菠菡菥菩菪菰菱菲菹菽萁萃萄萋萌萍萎萏萑萘萜萝萤营萦萧萨萱萸萼落葆葑著葚葛葜葡董葩葫葬葭葱葳葵葶葸葺蒂蒇蒈蒉蒋蒌蒎蒗蒙蒜蒡蒯蒲蒴蒸蒹蒺蒽蒿蓁蓄蓉蓊蓍蓐蓑蓓蓖蓝蓟蓠蓣蓥蓦蓬蓰蓼蓿蔌蔑蔓蔗蔚蔟蔡蔫蔬蔷蔸蔹蔺蔻蔼蔽蕃蕈蕉蕊蕖蕙蕞蕤蕨蕲蕴蕹蕺蕻蕾薄薅薇薏薛薜薤薨薪薮薯薰薷薹藁藉藏藐藓藕藜藤藩藻藿蘅蘑蘖蘧蘩蘸蘼虎虏虐虑虔虚虞虢虫虬虮虱虹虺虻虼虽虾虿蚀蚁蚂蚊蚋蚌蚍蚓蚕蚜蚝蚣蚤蚧蚨蚩蚬蚯蚰蚱蚴蚶蚺蛀蛄蛆蛇蛉蛊蛋蛎蛏蛐蛑蛔蛘蛙蛛蛞蛟蛤蛩蛭蛮蛰蛱蛲蛳蛴蛸蛹蛾蜀蜂蜃蜇蜈蜉蜊蜍蜒蜓蜕蜗蜘蜚蜜蜞蜡蜢蜣蜥蜩蜮蜱蜴蜷蜻蜾蜿蝇蝈蝉蝌蝎蝓蝗蝙蝠蝣蝤蝥蝮蝰蝴蝶蝻蝼蝽蝾螂螃螅螈螋融螗螟螨螫螬螭螯螳螵螺螽蟀蟆蟊蟋蟑蟒蟛蟠蟥蟪蟮蟹蟾蠃蠊蠓蠕蠖蠡蠢蠲蠹蠼血衄衅行衍衔街衙衡衢衣补表衩衫衬衮衰衲衷衽衾衿袁袂袄袅袈袋袍袒袖袜袢袤被袭袱袼裁裂装裆裉裎裒裔裕裘裙裟裢裣裤裥裨裰裱裳裴裸裹裼裾褂褊褐褒褓褙褚褛褡褥褪褫褰褴褶襁襄襞襟襦襻西要覃覆见观规觅视觇览觉觊觋觌觎觏觐觑角觖觚觜觞解觥触觫觯觳言訇訾詈詹誉誊誓謇警譬计订讣认讥讦讧讨让讪讫训议讯记讲讳讴讵讶讷许讹论讼讽设访诀证诂诃评诅识诈诉诊诋诌词诎诏译诒诓诔试诖诗诘诙诚诛诜话诞诟诠诡询诣诤该详诧诨诩诫诬语诮误诰诱诲诳说诵请诸诹诺读诼诽课诿谀谁谂调谄谅谆谇谈谊谋谌谍谎谏谐谑谒谓谔谕谖谗谙谚谛谜谝谟谠谡谢谣谤谥谦谧谨谩谪谫谬谭谮谯谰谱谲谳谴谵谶谷豁豆豇豉豌豕豚象豢豪豫豳豸豹豺貂貅貉貊貌貔貘贝贞负贡财责贤败账货质贩贪贫贬购贮贯贰贱贲贳贴贵贶贷贸费贺贻贼贽贾贿赀赁赂赃资赅赆赇赈赉赊赋赌赍赎赏赐赓赔赖赘赙赚赛赜赝赞赠赡赢赣赤赦赧赫赭走赳赴赵赶起趁趄超越趋趑趔趟趣趱足趴趵趸趺趼趾趿跃跄跆跋跌跎跏跑跖跗跚跛距跞跟跣跤跨跪跬路跳践跷跸跹跺跻跽踅踉踊踌踏踔踝踞踟踢踣踩踪踬踮踯踱踵踹踺踽蹀蹁蹂蹄蹇蹈蹉蹊蹋蹑蹒蹙蹦蹩蹬蹭蹯蹰蹲蹴蹶蹼蹿躁躅躇躏躐躔躜躞身躬躯躲躺车轧轨轩轫转轭轮软轰轱轲轳轴轵轶轷轸轺轻轼载轾轿辁辂较辄辅辆辇辈辉辊辋辍辎辏辐辑输辔辕辖辗辘辙辚辛辜辞辟辣辨辩辫辰辱边辽达迁迂迄迅过迈迎运近迓返迕还这进远违连迟迢迤迥迦迨迩迪迫迭迮述迷迸迹追退送适逃逄逅逆选逊逋逍透逐逑递途逖逗通逛逝逞速造逡逢逦逭逮逯逵逶逸逻逼逾遁遂遄遇遍遏遐遑遒道遗遘遛遢遣遥遨遭遮遴遵遽避邀邂邃邈邋邑邓邕邗邙邛邝邡邢那邦邪邬邮邯邰邱邳邴邵邶邸邹邺邻邾郁郄郅郇郊郎郏郐郑郓郗郛郜郝郡郢郦郧部郫郭郯郴郸都郾鄂鄄鄙鄞鄢鄣鄯鄱鄹酃酆酉酊酋酌配酎酏酐酒酗酚酝酞酡酢酣酤酥酩酪酬酮酯酰酱酲酴酵酶酷酸酹酽酾酿醅醇醉醋醌醍醐醑醒醚醛醢醪醭醮醯醴醵醺采釉释里重野量金釜鉴銎銮鋈錾鍪鎏鏊鏖鐾鑫钆钇针钉钊钋钌钍钎钏钐钒钓钔钕钗钙钚钛钜钝钞钟钠钡钢钣钤钥钦钧钨钩钪钫钬钭钮钯钰钱钲钳钴钵钷钹钺钻钼钽钾钿铀铁铂铃铄铅铆铈铉铊铋铌铍铎铐铑铒铕铗铘铙铛铜铝铞铟铠铡铢铣铤铥铧铨铩铪铫铬铭铮铯铰铱铲铳铴铵银铷铸铹铺铼铽链铿销锁锂锃锄锅锆锇锈锉锊锋锌锎锏锐锑锒锓锔锕锖锗锘错锚锛锝锞锟锡锢锣锤锥锦锨锩锪锫锬锭键锯锰锱锲锴锵锶锷锸锹锺锻锾锿镀镁镂镄镅镆镇镉镊镌镍镎镏镐镑镒镓镔镖镗镘镛镜镝镞镡镢镣镤镥镦镧镨镩镪镫镬镭镯镰镱镲镳镶长门闩闪闫闭问闯闰闱闲闳间闵闶闷闸闹闺闻闼闽闾阀阁阂阃阄阅阆阈阉阊阋阌阍阎阏阐阑阒阔阕阖阗阙阚阜队阡阢阪阮阱防阳阴阵阶阻阼阽阿陀陂附际陆陇陈陉陋陌降限陔陕陛陟陡院除陧陨险陪陬陲陴陵陶陷隅隆隈隋隍随隐隔隗隘隙障隧隰隳隶隼隽难雀雁雄雅集雇雉雌雍雎雏雒雕雠雨雩雪雯雳零雷雹雾需霁霄霆震霈霉霍霎霏霓霖霜霞霪霭霰露霸霹霾青靓靖静靛非靠靡面靥革靳靴靶靼鞅鞋鞍鞑鞒鞘鞠鞣鞫鞭鞯鞲鞴韦韧韩韪韫韬韭音韵韶页顶顷顸项顺须顼顽顾顿颀颁颂颃预颅领颇颈颉颊颌颍颏颐频颓颔颖颗题颚颛颜额颞颟颠颡颢颤颥颦颧风飑飒飓飕飘飙飚飞食飧飨餍餐餮饔饕饥饧饨饩饪饫饬饭饮饯饰饱饲饴饵饶饷饺饼饽饿馀馁馄馅馆馇馈馊馋馍馏馐馑馒馓馔馕首馗馘香馥馨马驭驮驯驰驱驳驴驵驶驷驸驹驺驻驼驽驾驿骀骁骂骄骅骆骇骈骊骋验骏骐骑骒骓骖骗骘骚骛骜骝骞骟骠骡骢骣骤骥骧骨骰骶骷骸骺骼髀髁髂髅髋髌髑髓高髡髦髫髭髯髹髻鬃鬈鬏鬓鬟鬣鬯鬲鬻鬼魁魂魃魄魅魇魈魉魍魏魑魔鱼鱿鲁鲂鲅鲆鲇鲈鲋鲍鲎鲐鲑鲔鲚鲛鲜鲞鲟鲠鲡鲢鲣鲤鲥鲦鲧鲨鲩鲫鲭鲮鲰鲱鲲鲳鲴鲵鲷鲸鲺鲻鲼鲽鳃鳄鳅鳆鳇鳊鳌鳍鳎鳏鳐鳓鳔鳕鳖鳗鳘鳙鳜鳝鳞鳟鳢鸟鸠鸡鸢鸣鸥鸦鸨鸩鸪鸫鸬鸭鸯鸱鸲鸳鸵鸶鸷鸸鸹鸺鸽鸾鸿鹁鹂鹃鹄鹅鹆鹇鹈鹉鹊鹋鹌鹎鹏鹑鹕鹗鹘鹚鹛鹜鹞鹣鹤鹦鹧鹨鹩鹪鹫鹬鹭鹰鹱鹳鹿麂麇麈麋麒麓麝麟麦麸麻麽麾黄黉黍黎黏黑黔默黛黜黝黟黠黢黥黧黩黯黹黻黼黾鼋鼍鼎鼐鼓鼗鼙鼠鼢鼬鼯鼷鼹鼻鼾齐齑齿龀龃龄龅龆龇龈龉龊龋龌龙龚龛龟龠"** 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|  | **},** |
|  | **}** |
|  | **}** |

**File.4 - Config.py**

|  |  |
| --- | --- |
|  |  |
|  | **import torch**  **import torch.nn as nn** |
|  | **import torch.nn.functional as F** |
|  |  |
|  | **from model.modules import vgg16\_bn, init\_weights** |
|  |  |
|  | **class double\_conv(nn.Module):** |
|  | **def \_\_init\_\_(self, in\_ch, mid\_ch, out\_ch):** |
|  | **super(double\_conv, self).\_\_init\_\_()** |
|  | **self.conv = nn.Sequential(** |
|  | **nn.Conv2d(in\_ch + mid\_ch, mid\_ch, kernel\_size=1),** |
|  | **nn.BatchNorm2d(mid\_ch),** |
|  | **nn.ReLU(inplace=True),** |
|  | **nn.Conv2d(mid\_ch, out\_ch, kernel\_size=3, padding=1),** |
|  | **nn.BatchNorm2d(out\_ch),** |
|  | **nn.ReLU(inplace=True)** |
|  | **)** |
|  |  |
|  | **def forward(self, x):** |
|  | **x = self.conv(x)** |
|  | **return x** |
|  |  |
|  |  |
|  | **class CRAFT(nn.Module):** |
|  | **def \_\_init\_\_(self, pretrained=False, freeze=False):** |
|  | **super(CRAFT, self).\_\_init\_\_()** |
|  |  |
|  | **""" Base network """** |
|  | **self.basenet = vgg16\_bn(pretrained, freeze)** |
|  |  |
|  | **""" U network """** |
|  | **self.upconv1 = double\_conv(1024, 512, 256)** |
|  | **self.upconv2 = double\_conv(512, 256, 128)** |
|  | **self.upconv3 = double\_conv(256, 128, 64)** |
|  | **self.upconv4 = double\_conv(128, 64, 32)** |
|  |  |
|  | **num\_class = 2** |
|  | **self.conv\_cls = nn.Sequential(** |
|  | **nn.Conv2d(32, 32, kernel\_size=3, padding=1), nn.ReLU(inplace=True),** |
|  | **nn.Conv2d(32, 32, kernel\_size=3, padding=1), nn.ReLU(inplace=True),** |
|  | **nn.Conv2d(32, 16, kernel\_size=3, padding=1), nn.ReLU(inplace=True),** |
|  | **nn.Conv2d(16, 16, kernel\_size=1), nn.ReLU(inplace=True),** |
|  | **nn.Conv2d(16, num\_class, kernel\_size=1),** |
|  | **)** |
|  |  |
|  | **init\_weights(self.upconv1.modules())** |
|  | **init\_weights(self.upconv2.modules())** |
|  | **init\_weights(self.upconv3.modules())** |
|  | **init\_weights(self.upconv4.modules())** |
|  | **init\_weights(self.conv\_cls.modules())** |
|  |  |
|  | **def forward(self, x):** |
|  | **""" Base network """** |
|  | **sources = self.basenet(x)** |
|  |  |
|  | **""" U network """** |
|  | **y = torch.cat([sources[0], sources[1]], dim=1)** |
|  | **y = self.upconv1(y)** |
|  |  |
|  | **y = F.interpolate(y, size=sources[2].size()[2:], mode='bilinear', align\_corners=False)** |
|  | **y = torch.cat([y, sources[2]], dim=1)** |
|  | **y = self.upconv2(y)** |
|  |  |
|  | **y = F.interpolate(y, size=sources[3].size()[2:], mode='bilinear', align\_corners=False)** |
|  | **y = torch.cat([y, sources[3]], dim=1)** |
|  | **y = self.upconv3(y)** |
|  |  |
|  | **y = F.interpolate(y, size=sources[4].size()[2:], mode='bilinear', align\_corners=False)** |
|  | **y = torch.cat([y, sources[4]], dim=1)** |
|  | **feature = self.upconv4(y)** |
|  |  |
|  | **y = self.conv\_cls(feature)** |
|  |  |
|  | **return y.permute(0,2,3,1), feature** |

**File.5 - craft.py**

# **Bibliography**

* https://www.javatpoint.com/python-tutorial
* https://www.w3schools.com/python/
* https://pypi.org/
* https://www.python.org