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        "import requests;\n",
        "from bs4 import BeautifulSoup;\n",
        "\n",
        "#定义获取豆瓣影评数据的方法\n",
        "def getComment(url,commentList):\n",
        "    #1.1---添加请求头(为了伪装的更像)\n",
        "    header={\n",
        "        \"User-Agent\":\"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.132 Safari/537.36\"\n",
        "    }\n",
        "    #1.2---发请求，获取响应\n",
        "    response = requests.get(url=url,headers = header);\n",
        "    #1.3---使用 bs4 跟 html5lib 解析网页内容\n",
        "    if(response.status_code==200):\n",
        "        soup = BeautifulSoup(response.content,\"html5lib\");\n",
        "        #1.4---获取所有存放评论区域的 div,class=\"mod-hd\"\n",
        "        commentItemList = soup.find_all(\"div\",attrs={\"class\":\"comment-item\"});\n",
        "        #1.5---遍历列表，获取每一个评论的作者、打分和正文\n",
        "        for commentItem in commentItemList:\n",
        "            #1.6---获取存放作者、打分、评论正文的 div,class=\"comment\"\n",
        "            comment = commentItem.find(\"div\",attrs={\"class\":\"comment\"});\n",
        "            #1.7---获取存放作者、打分的 div,class=\"comment-info\";\n",
        "            commentInfo = comment.find(\"span\",attrs={\"class\":\"comment-info\"});\n",
        "            #1.8---获取作者名字 None\n",
        "            author = commentInfo.find(\"a\").text;\n",
        "            #1.9---获取打分 因为豆瓣机制中是可以不打分的\n",
        "            star = commentInfo.find_all(\"span\")[1].get(\"title\");\n",
        "            #1.10---获取评论正文 span class=\"short\"\n",
        "            commentText = comment.find(\"span\",attrs={\"class\":\"short\"}).text.replace(\"\\n\",\"\\n\");\n",
        "            #1.11---将作者、打分、评论拼接成列表\n",
        "            yingping = [author,star,commentText]\n",
        "            #1.12---将每条评论添加到 commentList 中\n",
        "            commentList.append(yingping);\n",
        "        return commentList;\n",

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"\n",
"import csv;\n",
"#将评论写入到 csv 文件中\n",
"def writeComment(commentList):\n",
"    with open(\"流浪地球.csv\", \"w\", newline=\"\", encoding=\"utf-8\") as file:\n",
"        csvWriter = csv.writer(file);\n",
"        csvWriter.writerows(commentList);\n",
"\n",
"\n",
"if __name__ == '__main__':\n",
"    # 定义存储评论的列表\n",
"    commentList = []\n",
"    for i in range(10):\n",
"
                                                    baseUrl          =
\"https://movie.douban.com/subject/26266893/comments?start=%d&limit=20&sort=new_score
&status=P\" % (\n",
"        i * 20)\n",
"        #调用获取影评的方法\n",
"        commentList = getComment(baseUrl,commentList);\n",
"        #调用写入 csv 的方法\n",
"        writeComment(commentList);"
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"import csv;\n",
"import jieba;\n",
"from wordcloud import WordCloud;\n",
"from PIL import Image;\n",
"import numpy;\n",
"def readData():\n",
"    # 豆瓣的 1 星到 5 星分别代表什么：很差、较差、还行、推荐、力荐\n",
"    stars = (\"很差\", \"较差\", \"还行\", \"推荐\", \"力荐\");\n",
"    #定义列表，存储最终的评论结果\n",
"    commentList = [];\n",
"    # 读取 csv 文件内容\n",
"    with open(\"流浪地球.csv\", \"r\", encoding=\"utf-8\") as file:\n",
"        # 获取 csv 的读编辑对象\n",
"        csvReader = csv.reader(file);\n",
"        # 遍历所有评论\n",

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        for item in csvReader:\n",
        #不要没打分的评论\n",
        if(item[1] in stars):\n",
        commentList.append(item[2]);\n",
        return commentList\n",
    #定义生成词云图的方法\n",
    "def generateWordCloud():\n",
    #定义最终评论变量\n",
    finalComment = \"\";\n",
    #1.1---读取所有评论\n",
    comments = readData();\n",
    for comment in comments:\n",
    finalComment+=comment;\n",
    #1.2---将所有的评论拼接成一个完整的字符串，再做分词\n",
    finalComment = \"\".join(jieba.cut(finalComment));\n",
    #1.3---读取并设置词云轮廓\n",
    image = numpy.array(Image.open(\"tangguo.jpg\"));\n",
    #1.4---生成词云对象\n",
    word = WordCloud(\n",
    font_path= \"C:/Windows/Fonts/simhei.ttf\", \n",
    background_color= \"white\", \n",
    mask= image\n",
    ).generate(finalComment)\n",
    #1.5---生成本地词云文件\n",
    word.to_file(\"流浪地球.jpg\");\n",
    "\n",
    "if __name__ == '__main__':\n",
    generateWordCloud();\n",
    pass;"
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