

cPad 使用指南

5-UP 开发组

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Chapter 1

cPad 简介

cPad 是 5-Up 开发小组用 Qt 开发的一款 C 语言编辑器。在 C 语言文件处理上具有很多良好的特性，比如 C 语言语法高亮、进行 C 文件重排版、显示函数列表、自动补全、快速注释当前行、生成函数的标准注释、编译运行文件……除此之外，cPad 还有一些个性化的设置，比如用户可以选择颜色主题，可以开关当前行高亮和语法高亮……由于 cPad 是一门叫“软件基础实习”课的产物，完成时间在一个半月左右，所以软件难免会有问题。因为课程的性质，决定了 cPad 只能是一个试验品，不会再有大的改进，但我们愿意和您交流和 cPad 有关的所有东西！

我们的联系方式：

ideepblue [deepblue.aesky\[AT\]gmail.com](mailto:deepblue.aesky[AT]gmail.com)

lijunsong [ljs.darkfish\[AT\]gmail.com](mailto:ljs.darkfish[AT]gmail.com)

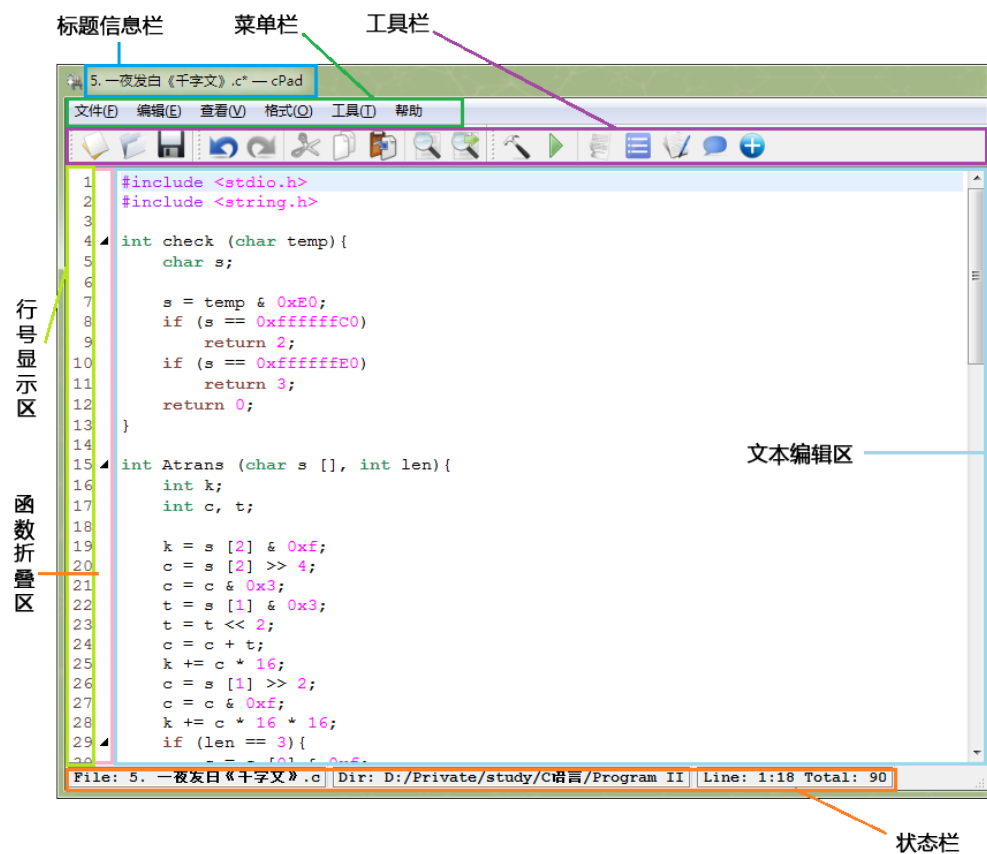
绯雨闲丸 [godgodgod0939\[AT\]yahoo.cn](mailto:godgodgod0939[AT]yahoo.cn)

Simon.JYZ [simon.jyz\[AT\]gmail.com](mailto:simon.jyz[AT]gmail.com)

曾经没有 [huang-w-x\[AT\]163.com](mailto:huang-w-x[AT]163.com)

Chapter 2

界面介绍



Chapter 3

文件说明

3.1 支持文件的类型

cPad 支持三种文件后缀的文件，分别为：“.c”、“.h”和“.txt”。

3.2 打开方式

cPad 支持三种打开文件的方式：

- 右键点击准备打开的文件 -> 在打开方式中选择 cPad 应用程序打开文件。
- 运行 cPad-> 选择“文件”-> “打开”-> 选择要打开的文件。
- 运行 cPad-> 将要打开的文件直接拖拽到 cPad 运行窗口内。

3.3 注意事项：

cPad 也可以打开其他后缀的文件。

Chapter 4

编辑

4.1 撤销

- 功能说明
撤销上一个操作
- 注意事项
不能撤销上一个“撤销”，您可以使用重做来完成此操作。

4.2 重做

- 功能说明
恢复上一个撤销
- 注意事项
不能重做上一个“重做”，您可以使用撤销来完成此操作。

4.3 查找

- 功能说明
在整个文档范围内对给定内容进行查找。有三种匹配模式：
 - 全字匹配
对英文和数字有效；如果选择全字匹配，可获得在空格或其他符号之间与查找字符的完全匹配。

- 区分大小写
对英文有效；如果选择区分大小写，可获得大小写与查找字符的完全匹配。
- 高亮结果
如果选择高亮结果，将会在全文返回内把搜索到的结果以红色背景标示出来。
- 注意事项
不能重做上一个“重做”，您可以使用撤销来完成此操作。
- 在文章末尾点击“下一个”按钮时候会默认跳转到文章头重新开始搜索。
- 在文章末尾点击“上一个”按钮时候会默认跳转到文章尾重新开始搜索。

4.4 替换

- 功能说明
将查找到的原文字符替换为新字符。
- 注意事项
无

Chapter 5

查看

5.1 功能说明

5.1.1 界面开关

”查看”菜单中设有”状态栏”、“文件工具栏”、“编辑工具栏”和”功能工具栏”4个选项，点击可开启/关闭相应的工具栏。

5.1.2 功能开关

”查看”菜单中设有语法高亮和高亮光标行两个选项，点击可开启/关闭相应的功能。

5.1.3 主题配色

”查看”菜单的主题配色中设有6种预设的主题配色，其中 Desert, koehler, Dark 是深色主题，morning, ron, sample 是浅色主题。点击可更改。

5.2 注意事项

无

Chapter 6

格式

6.1 自动换行

- 功能说明
当输入内容超过文本域，可实现自动换行。用户可在格式栏下开关自动换行功能。
- 注意事项
无

6.2 自动缩进

- 功能说明
 - cPad 支持 C 语言编写过程中的“自动缩进”功能。
 - 用户点击菜单栏的“格式”选项，可对“自动缩进”功能进行开关。
 - 当“自动缩进”功能处于关闭状态时，用户在编辑过程中的任何时候点击“回车”键，编辑框会在光标所在位置向下断行，光标会停留在下一行最左端。
 - 当“自动缩进”功能处于开启状态时，自动缩进将会体现在用户操作的两种状态下。
 - 当用户编写 C 语言代码，该区块逻辑不为顶层逻辑，用户点击“回车”键时，编辑框会在光标所在位置向下断行，断行后会在

该行行首添加若干数量的空格（空格数视当前区块逻辑层数以及上一层缩进空格数而定），光标会停留在系统自动添加的所有空格之后。

- 当用户在新的一行中进行编辑，编辑涉及“”、“”、“case”、“default”、“else”时，系统会重新检测该词的逻辑层数，逻辑层数有变化的情况，系统会自动改变该行缩进的空格数量，进行相应的增减空格操作，光标会停留在用户刚刚编辑的词语后面。

- 注意事项

多行注释的自动缩进，与普通语句类似，但是在注释中出现的 C 语言关键词，也可能导致注释中产生新的缩进。

6.3 字体

- 功能说明

用户可在字体设置中对语言、字体、字号、风格效果等进行设置，并在 Sample 窗口预览。

Chapter 7

工具

7.1 编译

7.1.1 编译器设置

- 功能说明
 - 设置编译器的具体路径、临时文件位置、编译器的参数
- 使用方法
 - 编译器
 - Windows 平台上请选择具体 exe 文件；在 Linux 平台上请输入编译器的绝对路径。
 - 临时文件位置
 - 编译出的可以执行文件存放位置。
 - 编译参数
 - 如果用到相应的库文件，请手动添加相应的编译参数。
- 注意事项
 - cPad 默认使用的编译器为 tcc
 - 临时文件位置在当前编辑文件的目录
 - 编译参数默认为 -Wall
 - Linux 平台下中文路径可能会导致编译失败

7.1.2 编译

- 功能说明
编译当前文件
- 使用方法
点击即编译当前文件。编译信息输出到编译信息的窗口。可点击“清除”来清除编译信息窗口的内容。
- 注意事项
cPad 的编译设置默认使用 `-o` 参数。如果当前文件为 `test.c`，则编译选项默认为：`<code> 编译器 -o 临时文件位置 +test.exe 当前位置 +test.c</code>`

7.1.3 编译并运行

- 功能说明
编译并运行当前文件
- 使用方法
点击即做编译和运行操作。编译信息输出到编译信息的窗口。可点击“清除”来清除编译信息窗口的内容。
- 注意事项
运行时，Windows 平台弹出 `cmd` 并运行当前程序；Linux 平台直接运行编译出的可执行文件。Linux 用户可能查看不了程序输出，解决办法是打开终端直接运行。

7.2 重排版

- 功能说明
 - cPad 支持对 C 语言代码的“重排版”功能。
 - ”重排版”操作是针对编辑器中的 C 语言代码，进行重新排版，使代码格式更规范、具有可读性。
- 使用方法
 - 用户点击菜单栏的“工具”选项，选择“重排版”；或者点击工具栏中的“重排版”按钮，可进行“重排版”操作。

- 点选后，会自动弹出“重排版”窗口，其中有 6 种选项可选，用户可以按照自己的编程风格，进行组合选择。
 - 强制在声明后断行：选择此项后，重排版的代码，会在所有的函数声明、变量声明、常量声明后添加空行（函数声明与全局变量声明之间不添加）；若未选，则不会添加此空行。
 - 强制在函数体后断行：选择此项后，重排版的代码，会在所有的函数体后添加空行（最后一个函数后如果没有其他代码，则不会添加）；若未选，则不会添加此空行。
 - 左大括号单独一行：选择此项后，重排版的代码，会使所有语句块开端的左大括号单独占用一行；若未选，该左大括号将会位于语句块关键词行的末尾。
 - 分号、逗号前加空格：选择此项后，重排版的代码，会使所有分号、逗号前添加空格；若未选，则不会添加该处空格。
 - 括号内侧加空格：选择此项后，重排版的代码，会在所有小括号、中括号内侧（左括号的右边、右括号的左边）添加空格（空括号只会添加一个空格；若已经存在其他空格，则不会再次添加）；若未选，则不会添加该处空格。
 - 函数名、区块关键词后加空格：选择此项后，重排版的代码，会在所有函数名、区块关键词（包括 if、else if、for、do、while、switch）后添加空格；若未选，则不会添加该处空格。
- 注意事项

如果重排版前，代码存在语法错误，重排版可能导致一定程度上的代码混乱，建议先使用编译功能，清除代码错误后再进行重排版。

7.3 函数列表

- 功能说明
 - cPad 支持列出 C 语言代码的”函数列表”功能。
 - ”函数列表”操作是根据编辑器中的 C 语言代码，提取已经或正在编写的函数信息，列出函数列表，供用户查看、跳转。
- 使用方法
 - 用户点击菜单栏的“工具”选项，选择“函数列表”；或者点击工具栏中的“函数列表”按钮，可弹出函数列表。

- 弹出的函数列表在主编辑栏上方、工具栏下方，默认写有“<Please Select>”文字。
 - 点击该文字所在下拉菜单，将会跳出当前编辑器中 C 语言代码所有已经或正在编写的函数信息（包括函数类型、函数名、函数的参数表）。
 - 当用户点击列表中某一函数信息时，主编辑栏会自动跳转至该函数区域。
- 注意事项
 - 用户对某函数只进行了声明，并没有进行编写的，不会出现在函数列表中。
 - 用户对某函数的编写，只要已经写出了函数的类型、名称、参数表以及左大括号，便认为该函数处于正在编写状态。
 - 用户每次点击下拉菜单时，函数列表会根据当前代码进行刷新，未进行点击时，列表不会刷新。

7.4 快速注释与反注释

- 功能说明

可对光标所在行的输入内容进行快速注释；可对已有注释语句取消注释
- 使用方法

在需要注释或者取消注释的行按组合键 Alt + M，或者点击工具栏中的快速注释按钮
- 注意事项

该功能只可实现单行的快速注释与反注释

7.5 生成函数注释

- 功能说明

在函数头生成当前函数的标准注释
- 使用方法

将光标移动到函数实体开始，按快捷键 F7 或者点击工具栏的生成函数注释按钮

- 注意事项
光标必须要在函数实体的开始才能生成函数的注释

7.6 自动补全

- 功能说明
 - cPad 支持列出 C 语言词语的“自动补全”功能。
 - ”自动补全”操作是根据编辑器中的 C 语言代码，提取已经存在的词语信息，对用户当前正在编辑的词语进行补全。
- 使用方法
 - 用户点击菜单栏的“工具”选项，选择“自动补全”；或者点击工具栏中的“自动补全”按钮，可弹出补全列表。
 - 弹出的补全表包含所有当前代码中已经出现过的、以当前光标位置前的半词开头的词语。当词语数量超过 5 个时，会出现上下方向的拉条。
 - 在列表中，词语以字典序排列，按键盘的上下键可以进行选择，在正确的词语上点击“回车”键即可完成补全。
 - 列表弹出后，可以继续编辑，以减少可补全选项。
 - 当用户输入空格或者其他使该词不能补全的键后，补全框会自动消失。
 - 当用户希望取消补全时，需要按键盘的“ESC”键。
- 注意事项
当补全框跳出后，鼠标点击暂时失效。当补全完成或者用户取消补全后，鼠标点击恢复。

Chapter 8

快捷键

Ctrl + N	新建文件
Ctrl + S	保存文件
Ctrl + O	打开已有文件
Ctrl + Z	撤消
Ctrl + Y	重做
Ctrl + X	剪切
Ctrl + C	复制
Ctrl + V	粘贴
Ctrl + A	全选
Ctrl + F	查找
Ctrl + H	替换
Alt + M	快速注释反注释
Alt + N	自动补全
F5	编译
Ctrl + F5	编译并运行
F6	重排版
F7	函数列表
F8	生成函数注释
F9	状态栏
Tab	进行 Tab 操作时，TAB 字符转化成 4 个空格宽度

Chapter 9

tab 键的特殊说明

cPad 为了和其他编辑器保持一致，把文章中所有 TAB 键产生的字符处理为空格（1 个 TAB 对应为 4 个空格）。其优点是 cPad 编辑出的文件即使用 Windows 的记事本打开也一样排版工整；其缺点是某类必须使用 TAB 的文件不能用 cPad 来编写，比如 Makefile 文件。

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