实验报告一

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2024年8月26日

1 Latex

1.1 练习内容

- 1. 导入宏包
- 2. 注释
- 3. 标题
- 4. 作者
- 5. 日期
- 6. 段落缩进
- 7. 换行
- 8. 斜体
- 9. 各种字体
- 10. 字体颜色
- 11. 字体大小
- 12. 特殊字符
- 13. 设置章节段落
- 14. 设计表格

- 15. 分点列表
- 16. 插入图片
- 17. 插入公式
- 18. 数学符号
- 19. 希腊数字
- 20. 引用文献
- 21. 导入pdf文件
- 22. 插入代码块

1.2 结果(以下5页pdf)

My first Document

肖予纯

2024/8/25

My homework First. Latex with 20 points.

Some text with emphasis and nested context
Some text with italic and nested context
words slanted
WORDS IN SMALLCAPS
words in bold
words in teletype
roman words
underlined words

words are red colorbox is green words are red and box is yellow

 $normal\ size\ _{\rm tiny\ size}$

script size

footnote size

small size

large size

Large size

LARGE size huge size

特殊字符: # \$ % ^ & _ { } ~

1 Title of the first section

1.1 Subsection of the first section

1.1.1 subsection of the first subsection paragraph one

2 Second section

	Apples	Green
	Strawberries	Red
	Orange	Orange
Apples Green		

Strawberries Red
Oranges Orange

two kinds of list:

- 1. An entry
- 2. Another One
- 3. Wow! Three entries
- An entry
- Another One
- + Wow! Three entries

A 'A'作为标号

1 + 2 = 3

$$1 + 2 = 3$$

$$1+2=3\tag{1}$$



图 1: Here is my image

 n^2 2_a $b\check{\ }\check{\ }a-2$

 $\frac{a}{3}$

 $\sqrt{y^2}$

 $\sqrt[x]{y^2}$

$$\sum_{x=1}^{5} y^z$$

$$\sum_{x=1}^{5} y^{z}$$

$$\int_{a}^{b} f(x)$$

 $\aleph \ \beta \ \delta \ \Delta \ \pi, \Pi$ 这是我引用的第一篇文献[1]。 第二篇[2] [3]

参考文献

- [1] Zhou Wang, A.C. Bovik, H.R. Sheikh, and E.P. Simoncelli. Image quality assessment: from error visibility to structural similarity. *IEEE Transactions on Image Processing*, 13(4):600–612, 2004.
- [2] Xinshun Wang, Wanying Zhang, Can Wang, Yuan Gao, and Mengyuan Liu. Dynamic dense graph convolutional network for skeleton-based human motion prediction. *IEEE Transactions on Image Processing*, 33:1– 15, 2024.
- [3] 白中英. 计算机组成原理, 2000.

附上代码块:

```
#include <iostream>
using namespace std;

int main()
{
        cout <<"hello"<<endl;
        return 0;
}</pre>
```

1.3 代码部分(图1)

2 Git

2.1 练习内容

- 1. git init 初始化Git仓库
- 2. git add file/git commit -m message添加文件到仓库
- 3. git status 掌握工作区状态
- 4. git diff 查看修改内容
- 5. git log 查看提交历史
- 6. git reset -hard committed 穿梭各个历史版本
- 7. git reflog 查看命令历史
- 8. git checkout file 丢弃工作区的修改
- 9. git reset HEAD file 丢弃暂存区的修改,回到工作区的修改状态
- 10. git rm file 从版本库删除该文件
- 11. git remote add origin git@server-name:path/repo-name.git 关联一个github远程仓库
- 12. git push -u origin master 第一次推送master分支的所有内容
- 13. git push origin master 推送最新修改
- 14. git remove rm origin 解除了本地和远程的绑定关系
- 15. git clone git@github.com:server-name/repo-name.git从远程库克隆

- 2.2 结果(图2)
- 2.3 代码部分(图3)

3 总结感悟

本来打算用listings宏包里的lstlisting的功能附上代码,但是好像只支持C、C++、Python等语言,把Latex的代码附上不容易,到现在也不知道如何解决,所以用图片的方式附上代码。

实验报告的模板tex和latex练习tex文件在github里。

4 Github

https://github.com/xiaoyuchun666/homework-tools.git

```
\documentclass[a4paper, 12pt]{article}
\usepackage{graphicx}
\usepackage[UTF8]{ctex}
\usepackage{color}
\usepackage{coas,
\usepackage{pdfpages}
%文档类型(较短的文章、报告)纸张大小为A4,文字大小为12pt
%还有其他文档类型如report(更长的文档)、proc(会议论文)、book、beamer、slides
\begin{document}
    \title{My first Document}
    \author{肖予纯}
    \date{2024/8/25}
    \maketitle
    \noindent My homework \\First. Latex with 20 points.
    Some text with \emph{emphasis and \emph{nested} context}%可嵌套使用
    Some text with \textit{italic and \textit{nested} context}%不可嵌套使用
    \textsl{words slanted}\\
    \textsc{words in smallcaps}\\
    \textbf{words in bold}\\
    \texttt{words in teletype}\\
    \textrm{roman words}\\
    \underline{underlined words}\\
    {\color{red}words are red}
    \colorbox{green}{colorbox is green}
    \colorbox{yellow}{{\color{red}words are red and box is yellow}}
    normal size
    {\tiny tiny size}\\
    {\scriptsize script size}\\
    {\footnotesize footnote size}\\
    {\small small size}\\
    {\large large size}\\
    {\Large Large size}\\
{\LARGE LARGE size}\\
    {\huge huge size}\\
```

```
特殊字符:
\# \$ \% \^{} \& \_ \{ \} \~{}
\section{Title of the first section}
\subsection{Subsection of the first section}
\subsubsection{subsection of the first subsection}
\paragraph{paragraph one}
\section{Second section}
\begin{array}{ll} \begin{array}{ll} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ 
               Apples
                                                             & Green \\% 符号'&'用于分割列
               \cline{1-1}Strawberries & Red \\
               Orange
                                                              & Orange \\
\end{tabular}
\begin{tabular}{rc}
               Apples
                                                                                               & Green \\
                \hline %分割行
               Strawberries
                                                                                              & Red
                \cline{1-2} Oranges & Orange \\ %在第一列和第二列之间插入横线
\end{tabular}
\\two kinds of list:
\begin{enumerate}
               \item An entry
\item Another One
                \item Wow! Three entries
\end{enumerate}
\begin{itemize}
                \item An entry
               \item[-] Another One
\item[+] Wow! Three entries
\item[A] 'A'作为标号
\end{itemize}
\boldsymbol{\beta} \begin{figure}[p]%p表示另起一页放置图片
                \centering
                \includegraphics[width=1\textwidth]{image}
                \caption{Here is my image}
                \label{image-myimage}
\end{figure}
```

```
$1+2=3$
    $$1+2=3$$\\%有行间的公式
%有标号的公式
    \begin{equation}
    1+2=3
\end{equation}
    $n^2$\\%上标
    $2_a$\\%下标
    $b—{a-2}$\\%上、下标含有多个字符
    $$\frac{a}{3}$$\\%分数,可嵌套
$$\sqrt{y^2}$$\\%根号
    $$\sqrt[x]{y^2}$$\\
$$\sum_{x=1}^5 y^z$$\\%求和
$$\int_a^b f(x)$$\\%积分
    $\aleph$
    $\beta$
    $\delta$
    $\Delta$
    $\pi,\Pi$
\\这是我引用的第一篇文献\cite{1284395}。\\
    第二篇\cite{10335618}\\
    \cite{666}
    \newpage
    \bibliographystyle{unsrt}
    \bibliography{reference}
    %导入pdf
%\includepdf{document.pdf}
\end{document}
```

图 1: codes of Latex

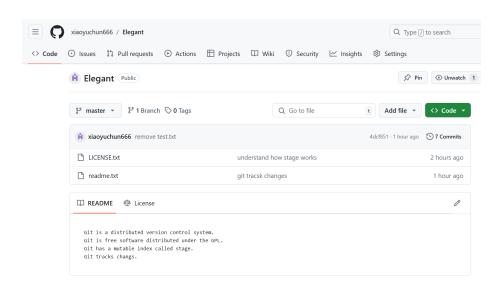




图 2: result of Git

```
initialized empty Git repository in E:/学习资料/三夏/系统开发工具实践/实验1-git/learngit/.git/
                                                                 三夏/系统开发工具实践/实验1-git/learngit (master)
  git add readme.txt
 子领BLAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
git commit -m "wrote a readme file"
master (root-commit) 8586376] wrote a readme file
L file changed, 2 insertions(+)
create mode 100644 readme.txt
 子纯原LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master) git status
laparich master
langes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: readme.txt
  changes added to commit (use "git add" and/or "git commit -a")
| FAMELAPTOP-8H9PA221 MINGW64 /E/学:
git diff
liff --git a/readme.txt b/readme.txt
ndex d8036c1.013b5bc 100644
--- a/readme.txt
++ b/readme.txt
er-1,2°+1,2 @@
Git is a version control system.
Git is a distributed version control system.
Git is free software.
No newline at end of file
 子纯@LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master) git add readme.txt
 f如BLAPTOP-8137...
git status

1 branch master
hanges to be committed:
(use "git restore --staged <file>..." to unstage)
codified: readme.txt
           .APTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
 子纯@LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
git commit -m "add distributed"
naster 4H73844] add distributed
L file changed, 1 insertion(+), 1 deletion(-)
  git status
 othing to commit, working tree clean
            PTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
  git add readme.txt
 子纯@LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
git commit -m "append GPL"
master def93f5] append GPL
I file changed, 1 insertion(+), 1 deletion(-)
          @LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
S git log

commit def93f50bd0c1ble7dcdadb8942dea7c712211b3 (HEAD -> master)

Author: xiaoyuchun <3245329682@qq.com>

Date: Mon Aug 26 18:12:25 2024 +0800
      append GPL
                                           1090482ce3faddbc9678d5
Author: xiaoyuchun <3245329682@qq.com>
Date: Mon Aug 26 18:07:17 2024 +0800
      add distributed
commit 85863f6d984c1047195d5c4a1e253b16ccb614c5
Author: xiaoyuchun <3245329682@qq.com>
Date: Mon Aug 26 18:04:19 2024 +0800
      wrote a readme file
       纯@LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
  git log --pretty-oneline
ef93f50bd0c1ble7dcdadb8942dea7c71221lb3 (HEAD -> master) append GPL
b73844c9e4a00fc9ba090482ce3faddbc9678d5 add distributed
5863f6d984c1047195d5c4ale253b16ccb614c5 wrote a readme file
    子纯@LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
 $ git reset --hard HEAD^
HEAD is now at 4b73844 add distributed
       纯@LAPTOP-8H9PA221 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
 片子纯@LAPTOP-8H9PAZ21 MINCO
5 cat readme.txt
Sit is a distributed version control system.
Sit is free software.
当 子纯@LAPTOP-8H9PAZ21 MINGW64 /E/学习资料/三夏/系统开发工具实践/实验1-git/learngit (master)
add distributed
 ommit 8386376d984C1047193d3C441e253b10
outhor: xiaoyuchun <3245329682@qq.com>
oate: Mon Aug 26 18:04:19 2024 +0800
```