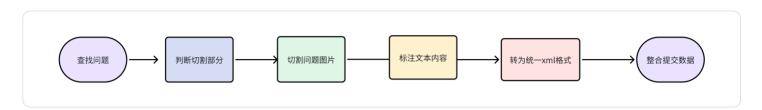
数据标注手册

一、标注目标:

将教辅材料与试卷每一页中的题目切割下来并转写,形成结构化数据,以供图像搜索使用。

二、大学拍照搜题项目工作流程:



大学科目及专业分类查询:

https://I93zwzi2sc.feishu.cn/sheets/C1IWsjqhYhsxn0tZuBYc8QqqnPg?from=from_copylink

三、判断切题

切割教辅材料与试卷的每一页中的题目

(1) 题目含义:

要求回答或解释的内容,实际操作过程中需要将文字题干及问题、答案(如有)全部切割下来。

(2) 题目主要包括几大类型及举例:

解答题、选择题、判断题、填空题、做图题、证明题、其它题<以下举例均为一个切割部分>

a.解答题: 需要在答题空白处撰写文字、数字答案的题目。

例如:《高等线性代数学》P48第11题

11. 令 Sk^pV 是 T^pV 中所有斜称张量构成的子空间. 对于 $x \in T^pV$, 令

$$A_p(x) := \frac{1}{p!} \sum_{\sigma \in \mathscr{S}_p} (-1)^{\operatorname{sgn}(\sigma)} (\sigma x).$$

假设 $\dim V < \infty$, 则证明下图是交换的:

$$T^{p}V \xrightarrow{A_{p}} T^{p}V$$

$$\downarrow^{\alpha} \qquad \qquad \downarrow^{\alpha}$$

$$\wedge^{p}V \xrightarrow{\alpha} Sk^{p}V$$

其中

$$\pi(v_1 \otimes \cdots \otimes v_p) = v_1 \wedge \cdots \wedge v_p$$

胸然 036且

$$\alpha(v_1 \wedge \cdots \wedge v_p) = A_p(v_1 \otimes \cdots \otimes v_p).$$

证明: 映射 α 是一个同构映射.

b.选择题: 同时拥有多个不同选项并需要选出正确答案的题目。

例如: 2023年全国硕士研究生统一考试数学(一)

(1) 曲线
$$y = x \ln(e + \frac{1}{x-1})$$
 的斜渐近线方程为 ()

(A)
$$y = x + e$$
 (B) $y = x + \frac{1}{e}$ (C) $y = x$ (D) $y = x - \frac{1}{e}$

c.填空题:需要填写答案使题目完整的题目。

例如: 2023年全国硕士研究生统一考试数学(一)

(14) 设连续函数
$$f(x)$$
 满足: $f(x+2) - f(x) = x$, $\int_0^2 f(x) dx = 0$, 则 $\int_1^3 f(x) dx =$ ______

d.判断题:需要判断题干是否符合知识点的题目。

例如:

6. 算法可以用不同的语言描述,如果用 C 语言或 PASCAL 语言等高级语言来描述,则算法实际上就是程序了。() 【西安交通大学 1996 二、7 (3 分)】

e.画图题:需要补充图画答案的题目。

例如: CAD绘图题

练习

- (1) 利用正交与对象追踪绘制图 3.1 与图 2.1 右侧所示图形;
- (2) 利用正交与对象追踪绘制图 4.1 所示图形;

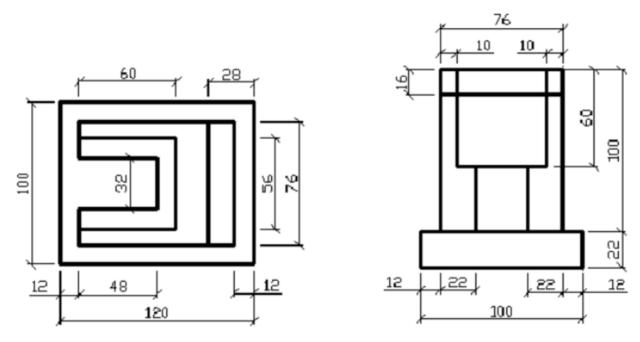
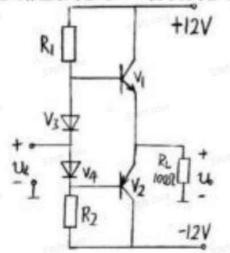


图 4.1 U 形桥台投影图`

f.证明题(应用题): 大题多问(多行),排版的时候有着留白以回答大量ans内容的题目。

例如: 物理应用题

- 4、电路如图所示,设 Uces=0 试回答下列问题: (6分)
 - (1) ui=0 时, 流过 RL 的电流有多大?
 - (2) 若 V3、V4 中有一个接反, 会出现什么后果?
 - (3) 为保证输出波形不失真, 输入信号 ui 的最大幅度为多少? 管耗为多少?



四、切图的具体说明:

以标注文件页数中的主题干(没有主题干,问题不成立)来判定切割数量,一个主题干为一个切割部 分,如遇到跨页,就有几页切几个图,例如。

(1) 数学计算题的切图方式

如图所示主题干为2个主题干,因此切割为2个部分,以进行下一步标注工作。例如下图,

五、证明题(本题共2小题,第1小题5分,第2小题6分, 共11分) 得 分

1. 设f(x)在[0,1]上连续且单调减少,证明:

$$\int_0^a f(x) dx \ge a \int_0^1 f(x) dx, \quad \forall a \in [0,1].$$

- 2. 设f(x)在[0,1]上二阶可导,且 $f(0) = \frac{1}{2}$, $f(\frac{1}{2}) = 1$,f(1) = 0.证明:
 - (1) $\exists \zeta \in (0,1)$, 使得 $f'(\zeta) = 0$. (4 分)
 - (2) $\exists \eta \in (0,1)$, 使得 $f''(\eta)(1-\eta)-2f'(\eta)=0$. (2分)

(2) 选择题的切图方式

如图所示主题干为6个主题干,因此切割为6个部分,以进行下一步标注工作。例如下图,

《机械制造基础》期末复习题答案

一、 单项选择题(每小题 1分,共 3

在下列每小题的四个备选答案中选出一个正确的答案,并将其字母标号填入题干 的括号内。

- 1、以下哪种加工,前角应选大些。(C)
 - A. 加工脆性材料 B. 工件材料硬度高;
 - C. 加工塑性材料: D. 脆性或塑性材料。
- 2、以下哪种磨削, 洗用软的砂轮。(A)
 - A. 磨削硬材料; B. 磨削软材料;
 - C. 磨削断续表面; D. 精磨。
- 3、粗加工选择切削用量的基本原则是(A)。
- A. 选取大的切削深度; B. 在单位时间内切除尽量少的加工余量;
- C. 选取小的切削深度; D. 选取大的切削速度。
- 4、精加工时,应选用哪种切削液。(C)
- A. 水溶液; B. 乳化液;
- C. 切削油: D. 温度较高的水溶液。
- 5、车床刀架的横向运动方向与车床回转轴线不垂直,车出的工件将呈现出 (A).
 - A. 端面中凸形; B. 腰鼓形:

C. 锥度:

- D. 腰鼓形和锥度。
- 6、钻孔有两种基本方式,其一是钻头不转,工件转,这种加工方式容易产生 (B)误差。
 - A. 轴线歪斜;

B. 锥度:

C. 轴线歪斜和锥度; D 轴线歪斜和腰鼓形。

(3) 数学多题切图方式

如图所示本页一共有3个不同的主提干,因此切割为三个部分,以进行下一步标注工作。例如下图,

8. 设 $V = \mathbb{R}^3 = \mathbb{R}e_1 + \mathbb{R}e_2 + \mathbb{R}e_3$, $V_1 = \mathbb{R}e_1$, $V_2 = \mathbb{R}e_1 + \mathbb{R}e_2$, $V_3 = \mathbb{R}e_1 + \mathbb{R}(e_2 + e_3)$, 其中 $e_1 = (1,0,0)^T$, $e_2 = (0,1,0)^T$, $e_3 = (0,0,1)^T$ 是 \mathbb{R}^3 的自然基. 定义线性映射

$$\psi_1: V \to \mathbb{R}e_2 + \mathbb{R}e_3$$
.

 $xe_1 + ye_2 + ze_3 \to \psi_1(xe_1 + ye_2 + ze_3) = ye_2 + ze_3$ 对所有的 $x, y, z \in \mathbb{R}$;

$$\psi_2: V \to \mathbb{R}e_3$$
,

 $xe_1 + ye_2 + ze_3 \rightarrow \psi_2(xe_1 + ye_2 + ze_3) = ze_3$ 对所有的 $x, y, z \in \mathbb{R}$;

$$\psi_3: V \to \mathbb{R}(e_3 - e_2),$$

 $xe_1 + ye_2 + ze_3 \rightarrow \psi_3(xe_1 + ye_2 + ze_3) = (y - z)(e_3 - e_2)$ 对所有的 $x, y, z \in \mathbb{R}$.

- (a) 给出 ψ_1 的核和 ψ_1 在基 e_1, e_2, e_3 下的矩阵. 进一步证明: $V/V_1 \approx \mathbb{R}e_2 + \mathbb{R}e_3$ 且 $\mathbf{0} \to V_1 \to V \to \mathbb{R}e_2 + \mathbb{R}e_3 \to \mathbf{0}$ 是正合的.
- (b) 给出 ψ_2 的核和 ψ_2 在基 e_1, e_2, e_3 下的矩阵. 进一步证明: $V/V_2 \approx \mathbb{R}e_3$ 且 $\mathbf{0} \to V_2 \to V \to \mathbb{R}e_3 \to \mathbf{0}$ 是正合的.
- (c) 给出 ψ_3 的核和 ψ_3 在基 e_1, e_2, e_3 下的矩阵. 进一步证明: $V/V_3 \approx \mathbb{R}(e_3 e_2)$ 且 $\mathbf{0} \to V_3 \to V \to \mathbb{R}(e_3 e_2) \to \mathbf{0}$ 是正合的. 最后, 画图表示商空间 V/V_3 的同构空间.
- (a) 0 ^g V ^f W 是正合的 ⇔ f 是单射. (序列正合 ⇒ 0 = Img(g) = Ker(f) ⇒ f 是单射. 反之亦然.)
 - (b) $V \stackrel{f}{\to} W \stackrel{g}{\to} \mathbf{0}$ 是正合的 $\iff f$ 是满射. (序列正合 $\Rightarrow \operatorname{Img}(f) = \operatorname{Ker}(g) = W \Rightarrow f$ 是满射. 反之亦然.)
 - (c) $\mathbf{0} \to V \to W \to Z \to \mathbf{0}$ 是正合的 \iff V 同构于 W 的一个子空间且 Z 同构于商空间 W/V.
- 10. 设 V 是一个 F 向量空间, U, W 为 V 的子空间. 假设 $U \subseteq W$.
 - (a) 证明映射 p:

$$V/U \to V/W,$$

$$v+U \mapsto v+W$$

是一个定义明确的线性映射, 即证明: 如果

$$v_1 + U = v_2 + U$$
,

则

$$p(v_1 + U) = p(v_2 + U).$$

(b) 映射 p 的核为

$$\operatorname{Ker} p := \{ v + U : p(v + U) = 0 + W \}.$$

证明: $\operatorname{Ker} p = W/U$.

(c) 证明: 如下序列

$$0 \to W/U \to V/U \xrightarrow{p} V/W \to 0$$

(4) 文字类的切图方式

以英语阅读题为例,阅读原文为大题干,要根据大题干回答的小题目均为小题干,大题干+小题干切割为一道题(一条数据),以进行下一步的标注工作。例如下图的完形填空,完型填空的英语原文为大题干,根据此原文需要答题的1-20为小题干,大题干+小题干为一条数据。

Section I Use of English

Directions:

Read the following text. Choose the best word(s) for each numbered blank and mark A, B, C or D on the ANSWER SHEET. (10 points)

1. [A] boasting	[B] denying	[C] warning	[D] ensuring
2. [A] inequality	[B] instability	[C] unreliability	[D] uncertainty
3. [A] policy	[B] guideline	[C] resolution	[D] prediction
4. [A] characterized	[B] divided	[C] balanced	[D] measured
5. [A] wisdom	[B] meaning	[C] glory	[D] freedom
6. [A] Instead	[B] Indeed	[C] Thus	[D] Nevertheless
7. [A] rich	[B] urban	[C] working	[D] educated
8. [A] explanation	[B] requirement	[C] compensation	[D] substitute
9. [A] under	[B] beyond	[C] alongside	[D] among
10. [A] leave behind	[B] make up	[C] worry about	[D] set aside
11. [A] statistically	[B] occasionally	[C] necessarily	[D] economically
12. [A] chances	[B] downsides	[C] benefits	[D] principles
13. [A] absence	[B] height	[C] face	[D] course
14. [A] disturb	[B] restore	[C] exclude	[D] yield
15. [A] model	[B] practice	[C] virtue	[D] hardship
16. [A] tricky	[B] lengthy	[C] mysterious	[D] scarce
17. [A] demands	[B] standards	[C] qualities	[D] threats
18. [A] ignored	[B] tired	[C] confused	[D] starved
19. [A] off	[B] against	[C] behind	[D] into
20. [A] technological	[B] professional	[C] educational	[D] interpersonal

(5) 判断题的切图方式

如图所示本页一共有1个大题干,6个小题干。因此切割为1个部分,以进行下一步标注工作。

23. 音位是:

1	按语音的	社会属	性划分	出代	来的	. ()	•	
②	按语 音的	物理性	质划组	出名	来的。	, ()	•	
3	按语音的	生理性	质划	分出	来的。	. ()	•	
4	按语音的	物理性	质和结	1.理	生质	划分	出来	的。()
⑤	一个语音	系统中	能够!	区别:	愈义	的最	小语	音单位	立。	
()								
6	个语音	系统中	的最大	小语:	音单	位。	(-)	

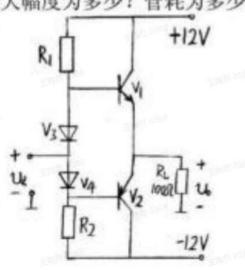
(6) 大小题的切图方式

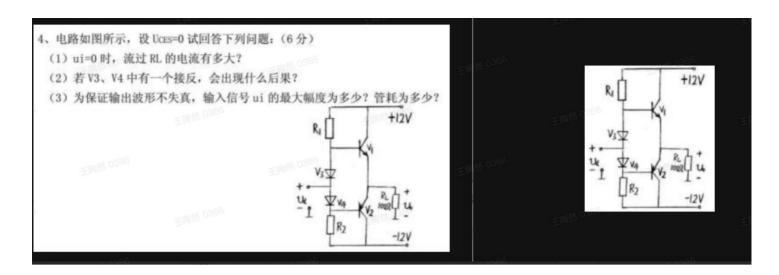
所有quiz在标注时都需要分别切图,并标注上quiz图片来源。

a.物理应用题的切图方式

题干加题干配图切一个图片、题干配图再单独切一个图片,例如以下图片,

- 4、电路如图所示,设 Uces=0 试回答下列问题: (6分)
 - (1) ui=0 时, 流过 RL 的电流有多大?
 - (2) 若 V3、V4 中有一个接反, 会出现什么后果?
 - (3) 为保证输出波形不失真, 输入信号 ui 的最大幅度为多少? 管耗为多少?





b.英语阅读题的切图方式

切英语题时,一道英语题有几页就切几页,不需要额外拼图为一张。

假如单道英语阅读题如果有两页,那么就切两个图,例如:

Text 2

Grade inflation – the gradual increase in average GPAs (grade-point averages) over the past few decades – is often considered a product of a consumer era in higher education, in which students are treated like customers to be pleased. But another, related force – a policy often buried deep in course catalogs called "grade forgiveness" – is helping raise GPAs.

Grade forgiveness allows students to retake a course in which they received a low grade, and the most recent grade or the highest grade is the only one that counts in calculating a student's overall GPA.

The use of this little-known practice has accelerated in recent years, as colleges continue to do their utmost to keep students in school (and paying tuition) and improve their graduation rates. When this practice first started decades ago, it was usually limited to freshmen, to give them a second chance to take a class in their first year if they struggled in their transition to college-level courses. But now most colleges, save for many selective campuses, allow all undergraduates, and even graduate students, to get their low grades forgiven.

College officials tend to emphasize that the goal of grade forgiveness is less about the grade itself and more about encouraging students to retake courses critical to their degree program and graduation without incurring a big penalty. "Ultimately," said Jack Miner, Ohio State University's registrar, "we see students achieve more success because they retake a course and do better in subsequent courses or master the content that allows them to graduate on time."

That said, there is a way in which grade forgiveness satisfies colleges' own needs as well. For public institutions, state funds are sometimes tied partly to their success on metrics such as graduation rates and student retention – so better grades can, by boosting figures like those, mean more money. And anything that raises GPAs will likely make students – who, at the end of the day, are paying the bill – feel they've gotten a better value for their tuition dollars, which is another big concern for colleges.

Indeed, grade forgiveness is just another way that universities are responding to consumers' expectations for higher education. Since students and parents expect a college degree to lead to a job, it is in the best interest of a school to turn out graduates who are as qualified as possible – or at least appear to be. On this, students' and colleges' incentives seem to be aligned.

英语试题 .5. (共14页)

本资料由微信公众号 世纪高教在线 整理并免费分享 答案解析请参考=考研英语黄皮书

- 26. What is commonly regarded as the cause of grade inflation?
 - [A] The change of course catalogs.
 - [B] Students' indifference to GPAs.
 - [C] Colleges' neglect of GPAs.
 - [D] The influence of consumer culture.
- 27. What was the original purpose of grade forgiveness?
 - [A] To help freshmen adapt to college learning.
 - [B] To maintain colleges' graduation rates.
 - [C] To prepare graduates for a challenging future.
 - [D] To increase universities' income from tuition.
- 28. According to Paragraph 5, grade forgiveness enables colleges to
 - [A] obtain more financial support.
 - [B] boost their student enrollments.
 - [C] improve their teaching quality.
 - [D] meet local governments' needs.
- 29. What does the phrase "to be aligned" (Line 5, Para. 6) most probably mean?
 - [A] To counterbalance each other.
 - [B] To complement each other.
 - [C] To be identical with each other.
 - [D] To be contradictory to each other.
- 30. The author examines the practice of grade forgiveness by
 - [A] assessing its feasibility.
 - [B] analyzing the causes behind it.
 - [C] comparing different views on it.
 - [D] listing its long-run effects.

五、标注结构结构说明约定及标注示例

(1) 数据结构说明及约定

由于题目数据结构多变不固定,因此计划使用xml结构描述题目的内容,并保留原始结构信息。数据主体结构由两部分构成:

字段名	说明
meta	meta用于存储题目的所有属性信息,如:来源、语种,文本长度等
content	存储题目的文本内容,包括大小题题干、解析、答案等

考虑到未来对题目进行归集、数据溯源或进行进一步的清洗等操作需要,meta字段二级展开如下:

备注参考

pub_time	string	否	发布时间戳,UTC时间,指数据最原始版本的时间,因为最原 始版本后面还可能会有多轮处理	
process_tim	string	是	流水线处理时间戳,UTC时间	
additional_i nfo	xml- string	否	留个活口,方便留备注、额外字段什么的	

content字段用于存储题目的详细信息,可根据题目结构灵活调整,二级展开如下:

字段名	type	必填	说明
questio n	string	是	主题干文本内容,若为单题结构,则为问题本身。
quiz	string	否	小题题干,里面可增加参数 type,用于meta - quiz_type为复合题时,额外描述题型,题型与meta - quiz_type中五大题型一致
id	string	否	题号,标明是在所在大题中的第几小题
exp	string	否	题目解析,若为小题解析,根据小题id规则迁移id
ans	string	否	题目答案,若为小题答案,根据小题id规则迁移id。若答案中同时存在多个答案,用[space]隔开
img	string	是	若题目的题干、解答中包含图标,则需要将每一个图标单独切图,并在该字段 放入图片文件路径。多个图片从1开始自增,里面可增加参数 src,用于与对应 的题干、答案或解析标签进行映射

(2) 标注示例

A.单题

- 2、漂移电流是(反向)电流,它由(少数)载流子形成,其大小与(温 度
-)有关,而与外加电压(无关)。
 - 1 <meta>
 - 2 <version>1.0<version/>
 - 3 <subject>模拟电子技术</subject>
 - 4 <data_type>试卷</data_type>
 - 5 <pub_year>2016</pub_year>

```
<full name>2016年-天津工业大学-模拟电子技术期末考试模拟题一</full name>
7
      <language>zh</language>
      <source>xxxxxxx</source>
8
9
      <quiz_type>填空题</quiz_type>
      <is_explaned>False</is_explaned>
10
      <is_answered>True</is_answered>
11
      <pub time>2023-09-08 19:00:00</pub time>
12
      cocess_time>2023-09-08 20:00:00
13
14
      <additional info>
          <附加字段示例1></附加字段示例1>
15
          <附加字段示例2></附加字段示例2>
16
      </additional_info>
17
18 </meta>
19 <content>
      <question>2、漂移电流是()电流,它由()载流子形成,其大小与()有关,而与外加电压
20
      <ans>反向[space]少数[space]温度[space]无关</ans>
21
      <img src="question">/path/to/x.png</img>
22
23 </content>
```

B.大题小题的标注规则

- 1. 大题我们用 <question> 来标记。
- 2. 小题我们用 <quiz> 来标记。
- 3. 如果没有 quiz 的话, 那么 <question> 需要和 <ans> 一一对应。
- 4. 如果有 quiz 的话, 那么<question> 同级目录下不需要有 <ans> 。 所有 <ans> 在 <quiz> 下和 <content > 一一对。
- 5. Quiz 的图片标注规则: 所有quiz都需要标注图片source来源标注。
- 6. 一道quiz 题如果有多个空格。 比如下面, 用 [space]隔开
 - 1 内容分析包括()和()哪几个模块?

```
1 <ans> A [space] B </ans>
```

7. 大小题拆分逻辑:

- a. 对于一道大题里的多个小问,排版相对比较密集的 **(一行**), 不需要拆分成 quiz 。
- b. 对于大题多问**(多行**), **排版的时候有着留白以回答大量ans内容的题目,** 需要拆分成 quiz 。

- c. 对于涉及到多页,如完形填空,阅读理解等题目,需要拆分成 quiz 。
- d. 如果没有涉及到小题有图片之类的, quiz不需要标记 <image> . (quiz.image 是一个 optional)
- e. 具体情况请实际标注过程中和项目经理保持密切沟通

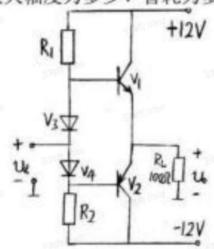
下面是一些样例:

例a: 此道汉语阅读题排版较为密集,不需要拆分成quiz。

578. 一个句子从不同	角度看可	以属于多种句	型。"松花江被晚
震照得通红"这个句子,	可以看成	:	. ,
①被动句	€.)	
②主谓句	()	
③形容词性谓语句	()	
④单句	()	
⑤动词性谓语句	(•	

例b: 此物理应用题有多问,并且排版的时候有着留白以回答大量的ans内容,该题目就需要拆分成quiz。

- 4、电路如图所示,设 Uces=0 试回答下列问题: (6分)
 - (1) ui=0 时, 流过 RL 的电流有多大?
 - (2) 若 V3、V4 中有一个接反, 会出现什么后果?
 - (3) 为保证输出波形不失真, 输入信号 ui 的最大幅度为多少? 管耗为多少?



```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <body>
       <body1>
3
4
          <meta>
              <version>1.0</version>
5
6
              <subject>模拟电子技术</subject>
              <data_type>试卷</data_type>
7
              <pub_year>2016</pub_year>
8
              <full name>2016年-天津工业大学-模拟电子技术期末考试模拟题一</full name
9
              <language>zh</language>
10
              <source>/path/to/x.png</source>
11
              <quiz_type>问答题</quiz_type>
12
              <pub_time>2023-09-14 20:36:51</pub_time>
13
              cprocess_time>2023-09-14 22:11:23
14
              <is_explaned>False</is_explaned>
15
16
              <is answered>True</is answered>
          </meta>
17
18
          <content>
              <question>4、电路如图所示,设 U_{CES} 试回答下列问题;(6分) </question
19
              <img src="question">/path/to/x.png</img>
20
21
              <img src="question">/path/to/x.png</img>
22
              <quiz>
              <id>1</id>
23
              <content>(1)ui=0\text{ 时,流过 RL 的电流有多大}</content>
24
              <img src="question">/path/to/x.png</img>
25
              <ans> (1) ui=0时 R_L 电流为零 </ans>
26
```

```
27
              </quiz>
              <quiz>
28
              <id>2</id>
29
              <content>(2)\text{ 若V3、V4 中有一个接反,会出现什么后果}?(</content>
30
              <img src="question">/path/to/x.png</img>
31
              <ans>2) V3、V4有一个反接电路不能工作 </ans>
32
              </quiz>
33
              <quiz>
34
35
              <id>3</id>
              <content>(3)\text{为保证输出波形不失真,输入信号 ui 的最幅度为多少? f
36
              <img src="question">/path/to/x.png</img>
37
              <ans> 3) ui=0时 R_L 电流为零 </ans>
38
              </auiz>
39
           </content>
40
       </body1>
41
42 </body>
```

例c: 英语题的所有小题全部按quiz格式分别标注出来。

*英语题:question里面img来源需要放上英语阅读原文图片以及英语小题的整张图片如下所示的两张 图;而英语题的quiz标注则需要对应的每一道小题的单独img来源。

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Text 2

Grade inflation – the gradual increase in average GPAs (grade-point averages) over the past few decades – is often considered a product of a consumer era in higher education, in which students are treated like customers to be pleased. But another, related force – a policy often buried deep in course catalogs called "grade forgiveness" – is helping raise GPAs.

Grade forgiveness allows students to retake a course in which they received a low grade, and the most recent grade or the highest grade is the only one that counts in calculating a student's overall GPA.

The use of this little-known practice has accelerated in recent years, as colleges continue to do their utmost to keep students in school (and paying tuition) and improve their graduation rates. When this practice first started decades ago, it was usually limited to freshmen, to give them a second chance to take a class in their first year if they struggled in their transition to college-level courses. But now most colleges, save for many selective campuses, allow all undergraduates, and even graduate students, to get their low grades forgiven.

College officials tend to emphasize that the goal of grade forgiveness is less about the grade itself and more about encouraging students to retake courses critical to their degree program and graduation without incurring a big penalty. "Ultimately," said Jack Miner, Ohio State University's registrar, "we see students achieve more success because they retake a course and do better in subsequent courses or master the content that allows them to graduate on time."

That said, there is a way in which grade forgiveness satisfies colleges' own needs as well. For public institutions, state funds are sometimes tied partly to their success on metrics such as graduation rates and student retention – so better grades can, by boosting figures like those, mean more money. And anything that raises GPAs will likely make students – who, at the end of the day, are paying the bill – feel they've gotten a better value for their tuition dollars, which is another big concern for colleges.

Indeed, grade forgiveness is just another way that universities are responding to consumers' expectations for higher education. Since students and parents expect a college degree to lead to a job, it is in the best interest of a school to turn out graduates who are as qualified as possible – or at least appear to be. On this, students' and colleges' incentives seem to be aligned.

英语试题 .5. (共14页)

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- 26. What is commonly regarded as the cause of grade inflation?
 - [A] The change of course catalogs.
 - [B] Students' indifference to GPAs.
 - [C] Colleges' neglect of GPAs.
 - [D] The influence of consumer culture.
- 27. What was the original purpose of grade forgiveness?
 - [A] To help freshmen adapt to college learning.
 - [B] To maintain colleges' graduation rates.
 - [C] To prepare graduates for a challenging future.
 - [D] To increase universities' income from tuition.
- 28. According to Paragraph 5, grade forgiveness enables colleges to
 - [A] obtain more financial support.
 - [B] boost their student enrollments.
 - [C] improve their teaching quality.
 - [D] meet local governments' needs.
- 29. What does the phrase "to be aligned" (Line 5, Para. 6) most probably mean?
 - [A] To counterbalance each other.
 - [B] To complement each other.
 - [C] To be identical with each other.
 - [D] To be contradictory to each other.
- 30. The author examines the practice of grade forgiveness by

[A] assessing its feasibility.

- [B] analyzing the causes behind it.
- [C] comparing different views on it.
- [D] listing its long-run effects.

```
<?xml version="1.0" encoding="UTF-8"?>
 1
 2
   <body>
 3
       <body1>
 4
           <meta>
               <version>1.0</version>
 5
               <subject>考研英语一</subject>
 6
               <data_type>试卷</data_type>
 7
               <pub_year>2016</pub_year>
 8
               <full_name>2019年考研英语一试卷</full_name>
 9
               <language>zh</language>
10
               <source>http://159.75.220.17:8080/dev-api/tools/view?fileId=17018886
11
12
               <quiz_type>问答题</quiz_type>
               <pub_time>2023-09-14 20:44:33</pub_time>
13
               cprocess_time>2023-09-14 22:11:19
14
               <is_explaned>False</is_explaned>
15
               <is_answered>False</is_answered>
16
           </meta>
17
           <content>
18
               <question>Text 2 Grade inflation - the gradual increase in average G
19
20 Grade forgiveness allows students to retake a course in which they received a lo
21 The use of this little-known practice has accelerated in recent years, as colleg
22 College officials tend to emphasize that the goal of grade forgiveness is less
23 That said, there is a way in which grade forgiveness satisfies colleges' own nee
   Indeed, grade forgiveness is just another way that universities are responding t
   .</question>
25
       <img src="question">/path/to/image</img>
26
27
       <quiz>
       <id>1</id>
28
       <content>26. What is commonly regarded as the cause of grade inflation?
29
30
  [A] The change of course catalogs.
  [B] Students' indifference to GPAs.
31
32 [C] Colleges' neglect of GPAs.
   [D] The influence of consumer culture.</content>
33
       <img src="quiz" > /path/to/image </image>
34
       <ans>A</ans>
35
       </quiz>
36
37
       <quiz>
       <id>2</id>
38
       <content>27. What was the original purpose of grade forgiveness?
39
  [A] To help freshmen adapt to college learning.
40
41 [B] To maintain colleges' graduation rates.
  [C] To prepare graduates for a challenging future.
```

```
43
  [D] To increase universities' income from tuition.</content>
44
       <img src="quiz" > /path/to/image </image>
       <ans>A</ans>
45
       </quiz>
46
47
48
       <quiz>
       <id>3</id>
49
       <content>28. According to Paragraph 5, grade forgiveness enables colleges to
50
51 [A] obtain more financial support.
52 [B] boost their student enrollments.
53
  [C] improve their teaching quality.
   [D] meet local governments' needs.
54
       <img src="quiz" > /path/to/image </image>
55
       <ans>B</ans>
56
       </quiz>
57
58
       <quiz>
       <id>4</id>
59
60
       <content>
61 29. What does the phrase "to be aligned" (Line 5, Para. 6) most probably mean?
62 [A] To counterbalance each other.
63 [B] To complement each other.
  [C] To be identical with each other.
   [D] To be contradictory to each other.</content>
65
       <img src="quiz" > /path/to/image </image> # optional
66
       </quiz>
67
68
       <ans>
       <id>4</id>
69
       <content>A</content>
70
71
       </ans>
       </content>
72
73
       </body1>
74 </body>
```

C. Latex的标注规则

- 1. 涉及到特殊的识别符号比如 \div, power, 行列式, limit 等用 latex 来标注。
- 2. 多行数学公式,用 latex 。
- 3. Latex 标签 <latex> </latex> 来做标签, <latex>x_2</latex>
- 4. 单个阿拉伯数字 比如 1, 2, 3, a>0, a=1 等等用 utf-8 即可。
- 5. > < 请用 > < 替代

公式查询网址: https://www.latexlive.com/

```
4. 设a > 0, b > 0, 则方程x^3 + ax + b = 0 ( ).
```

- A. 只有一个正实根
 - C. 有三个互异实根

- B. 只有一个负实根
- D. 有两个互异实根

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <body>
3
       <body1>
4
           <meta>
5
              <version>1.0</version>
              <subject>高数A</subject>
6
              <data_type>试卷</data_type>
7
              <pub year>2016</pub year>
8
              <full_name>高数A</full_name>
9
              <language>zh</language>
10
              <source>/path/to/image</source>
11
              <quiz type>选择题</quiz type>
12
              <pub_time>2023-09-14 20:47:28</pub_time>
13
              cprocess time>2023-09-14 21:32:45
14
              <is_explaned>False</is_explaned>
15
              <is answered>True</is answered>
16
17
          </meta>
           <content>
18
               <question>4. 设a > 0, b > 0 ,则方程<latex>x^3+ax+b=0</latex>(
19
20 A. 只有一个正实根
                                   B. 只有一个负实根
21 C. 有三个互异实根
                                   D. 有两个互异实根
22
              </question>
              <img src="question">/path/to/image</img>
23
24
              <ans>4. B</ans>
25
           </content>
       </body1>
26
27 </body>
```

D.answer的标注规范

1. 如果题目没有答案的话 ,需要按以下的标注方法标注。有 quiz 的情况下不需要标注.

```
1 <ans></ans>
```

2. 如果没有 quiz 的情况, <question> 需要和 <ans> ——对应, ans 无 id; 如果有 quiz 。 <quiz> 需要 和<ans> ——对应, 且 id 必须一致。

```
<?xml version="1.0" encoding="UTF-8"?>
 2 <body>
 3
       <body1>
 4
           <meta>
 5
               <version>1.0</version>
 6
               <subject>考研英语一</subject>
 7
               <data_type>试卷</data_type>
               <pub_year>2016</pub_year>
 8
               <full_name>2019年考研英语一试卷真题</full_name>
 9
               <language>zh</language>
10
               <source>/path/to/image</source>
11
               <quiz_type>问答题</quiz_type>
12
               <pub time>2023-09-14 20:44:33</pub time>
13
               cprocess_time>2023-09-14 22:11:19
14
               <is_explaned>False</is_explaned>
15
               <is_answered>False</is_answered>
16
17
           </meta>
18
           <content>
               <question>xx </question>
19
       <img src="question">/path/to/image</img>
20
       <quiz>
21
       <id>1</id>
22
23
       <content>xx </content>
       <img src="quiz" > /path/to/image </image>
24
25
       <ans>
26
       <id>1</id>
       <content>A</content>
27
28
       </ans>
       </quiz>
29
30
       <quiz>
       <id>2</id>
31
32
       <content> xx </content>
33
       <img src="quiz" > /path/to/image </image>
34
       <ans>
       <id>2</id>
35
       <content>A</content>
36
       </ans>
37
38
       </quiz>
       <quiz>
39
       <id>3</id>
40
       <content> xx </content>
41
```

```
42
        <img src="quiz" > /path/to/image </image>
43
        <ans>
        <id>3</id>
44
        <content>A</content>
45
        </ans>
46
47
        </quiz>
        <quiz>
48
       <id>4</id>
49
50
        <content> xx </content>
        <img src="quiz" > /path/to/image </image> # optional
51
52
       <id>4</id>
53
       <content>A</content>
54
55
       </ans>
       </quiz>
56
57
       </content>
58
       </body1>
59 </body>
```

E.多个答案的转写格式规范

多个答案用 [space] 隔开。 例如有三个答案, "A[space]B[space]C[space]"

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <body>
       <body1>
3
4
          <meta>
5
              <version>1.0</version>
              <subject>现代汉语千题解</subject>
6
7
              <data_type>教辅</data_type>
              <pub_year>2016</pub_year>
8
              <full_name>现代汉语千题解</full_name>
9
10
              <language>zh</language>
              <source>http://159.75.220.17:8080/dev-api/tools/view?fileId=17018886
11
12
              <quiz_type>判断题</quiz_type>
13
              <pub_time>2023-09-14 20:25:58</pub_time>
              cprocess_time>2023-09-14 21:33:38
14
              <is_explaned>False</is_explaned>
15
              <is_answered>True</is_answered>
16
          </meta>
17
18
          <content>
              <question>573.一个句子从不同角度看可以属于多种句型。"松花江被晚霞照得通红"这
19
20 ①被动句()
```

```
21 ②主谓句()
22 ③形容词性谓语句()
23 ④单句()
24 ⑤动词性谓语句()</question>
              <img src="question">http://159.75.220.17:8080/dev-api/tools/view?fil
25
              <ans>√ [space] √ [space] × [space] √ [space] √</ans>
26
           </content>
27
      </body1>
28
29 </body>
30
31
32 #
33
```

F.关于题目中的着重号

正常转写即可,题什么样,转写下来就是什么样,要是UTF8表示不出来,就用latex公式。

例如:

```
\underset{\cdot}{好}
```

♥ 输出区域 Output

G.大于号小于号与尖括号的转写问题

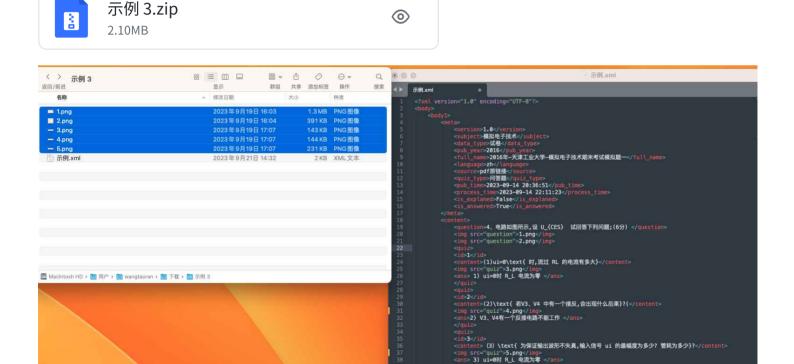
大于号小于号与尖括号表示的方法是一致的,所以我们不再区分大于号、小于号和尖括号;不管是大于小于号还是尖括号都用>、<进行转写

六、标注数据交付

1、交付方式:

交付时,应当交付xml数据及图片数据,上传至相应的oss路径中。

每份试卷或教辅数为一个文件夹,其中包含img目录及平铺的xml文件,每个xml文件中放一道题目的信息。xml中的图片路径应当为相对路径。具体可参见以下示例。



2、交付格式:



<	昆明理工大学85	7艺术史与艺术批评 20122020 \$	F考研 真题_ 4.pdf	
默认↓	名称	日期	类型	大小
1_三.3				
2 项				
2_—.5				
2 项				
2_一.1 2 项				
2 项				
2页				
2_=.1				
2 项				
2_≡.2				
2 项				
2_=.2				
2 项				
1_Ξ.2				
2 项				
26				
2 项				
2_一.3 2 项				
1_=.4				
2 项				
1_=.1				
2 项				
22				
2 项				
1_=.2				
2 项				
2_=.4				
2 项				

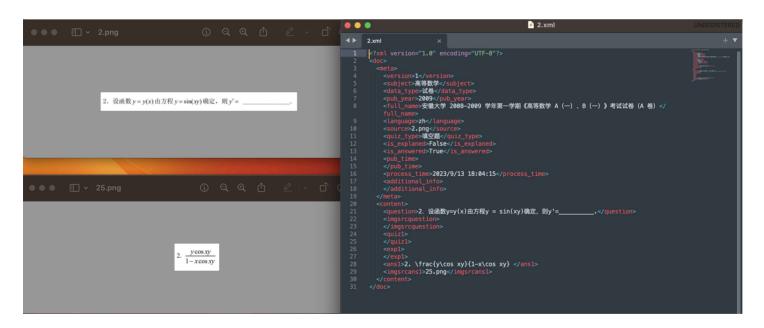


七、常见错误案例展示

以下均为错误举例,不要引用!!!!!

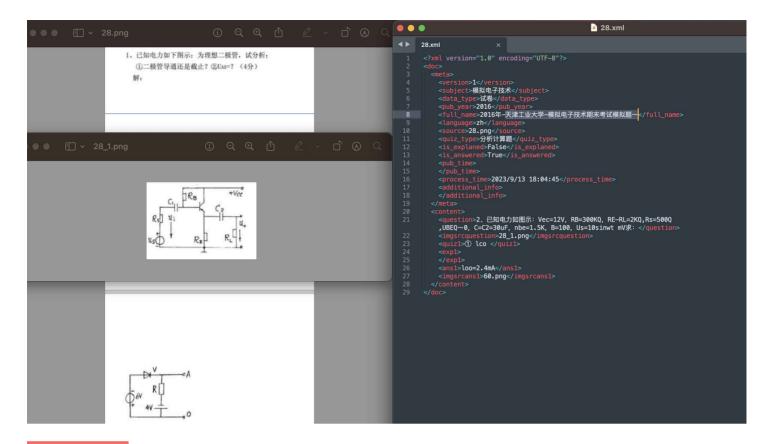
1、多切图

数学题中将答案也切了图,标注进了字符串里。



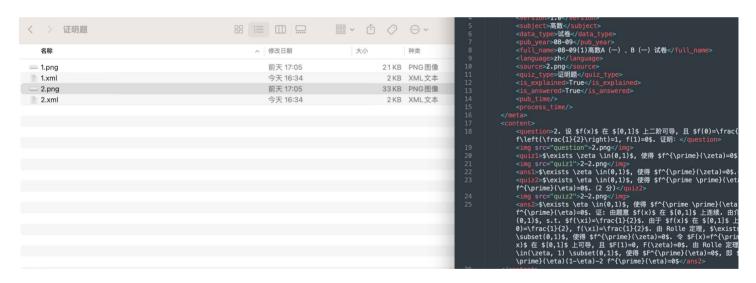
2、错切图

切图错误



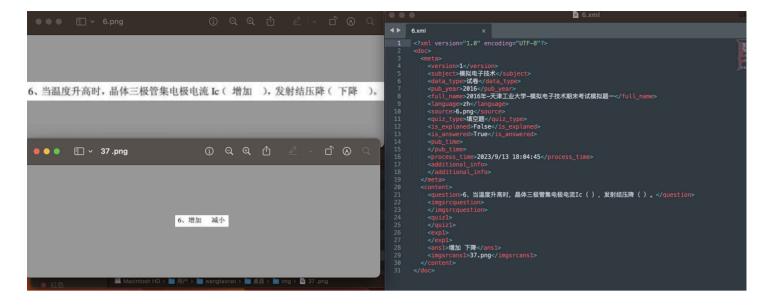
3、少切图

试卷证明题2缺少2-2的图片



4、缺少图片的source字段

欠缺question的source字段。



5、缺少latex转写

6、题目文字转写有误

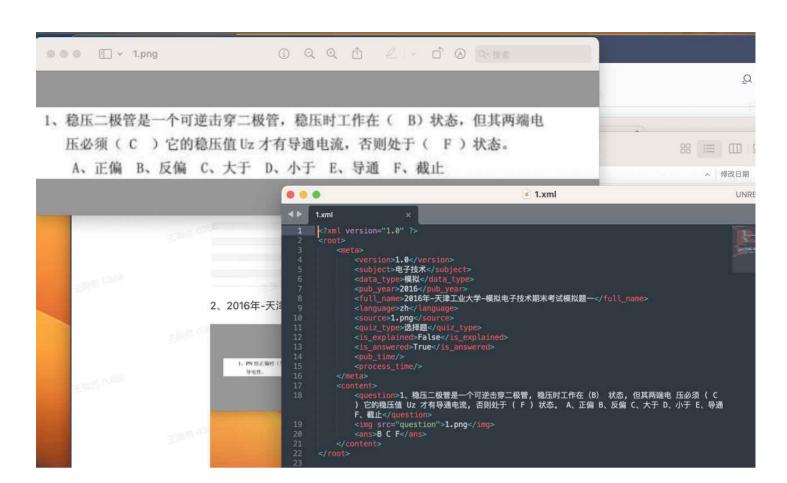
```
. .
                                                                                                                                                            2.xml
                                                                                                                        >头驱与科字辅导</data_ty
                                                                                                                        >结构化程序设计与算法认识
                                                                                                                            >2023/9/13 18:06:02</process_time>
   案例 6-2 搬砖问题: 36 块砖,36 人搬,男搬 4,女搬 3,两个小孩抬 1 砖,要求一次
                                                                                                             ·question>案例 6-2 搬砖问题:36 块砖,36 人搬,男搬 4,女
3,两个小孩抬1砖,要求一次搬完,问男、女和小孩各多少人
  搬完, 问男、女和小孩各多少人
                                                                                                                    cquestion>2_1.png</imgsrcquestion>
                                                                                                       2. 操作步骤
(1) 打开 Visual C++ 2010 集成开发环境,新建一个控制台应用程序。
(2) 创建好项目后,在 main()方法中输入以下代码:
#include "stdio.h"
int main()
    int men, women, children;
    men=0;
                                                                                                       children=36-men-women;
if((men*4+women*3+children/2==36)&&children%2==0)
printf("men=%d,women=%d,children-%d\n",men,women,children); women++;
men++;return 0;
(3)执行程序、单击"调试"菜单的"开始执行",或者直接按快捷键 Ctrl+F5,程序的运行结果如下:3、程序说明
此程序是典型的穷举法案例。外循环列出所有men 可能的人数(0~8)
,内循环列出在外循环的某一取值下women可能的人数(0~11),小孩的人数由总人数减去男人和女人的人数得到。对每一种情况,都要判定是否满足砖的总数量且小孩的人数是偶数,如果此次列举的男人数、女人数和小孩数满足条件,输出结果。
    while(men<=8)
         women=0;
         while(women<=11)
              if((men*4+women*3+children/2=36)&&children%2=0)
                 printf("men=%d,women=%d,children=%d\n",men,women,children);
              women++:
         men++;
```

7、转写字段错误

```
★1+(F) 網額(E) 1世エレ(U) 旦値(V) 帯別(E)
       <is_explaned>False</is_explaned>
       <is answered>True</is answered>
     </meta>
     <content>
       <question>2. 设 f (x)在[0,1]上二阶可导, 且 f (0)=\frac{1}{2}, f(\frac{1}{2})=1,f(1)=0.
证明: </question>
       <quiz>(1) 3ζ ∈(0,1), 使得f'(ζ)=0. (4分) </quiz>
       <img src="question">http://159.75.220.17:8080/dev-api/tools/view?fileId=1702305375815995392</img>
       <ans>\begin{aligned}&amp;\text{证: 由题意 }f(\mathrm{x})\text{ 在}[0,1]\text{ 上连续.}\quad\text{由介值定理.}\quad\exists\xi\\in(0,1),\mathrm{<s.t.~}f
(\xi)=
<latex>\frac12.</latex>
\\&\text{由于 }f(\mathrm{x})\text{ 在}[0,1]\text{ 上可导,}f(0)=
<latex>\frac12.</latex>
\cdot : f(\xi) =
<latex>\frac12.</latex>
.\quad\text{使 Ro11e 定理,}\:\exists\zeta\in(0,\xi)\subset(0,1)\:,\&\text{使得 }f^{\prime}(\xi)=0.\&\quad</ans>
      <quiz>(2) ∃η ∈(0,1), 使得(f'')(1-η)-2f'(η)=0. (2分) </quiz>
      <ans>\text{$}F(\mathrm{x})=f^{\prime}(\mathrm{x})(\mathrm
<latex>{l-x})^2</latex>
\,\text{ 显然 }F(\mathrm{x})\.\text{在}[0,1]\.\text{上可导},\quad\text{且}\:F(\)=0,\:F(\zeta)=0\..amp;\text{ 由 Ro11e 定理,\\quad\exists\eta\in(\zeta,1)\subset(0,1),
\text{使得 }F^{\prime}(\eta)=0\:,\:\text{ 即 }
</latex>
\f^{\rho \phi}(\alpha)(1-\beta)-2\f^{\rho \phi}(\beta)=0
</latex>
\end{aligned}</ans>
       <img src="ans">http://159.75.220.17:8080/dev-api/tools/view?fileId=1702308559032684544</img>
     </content>
  </body1>
</body>
```

8、题目和答案判断错误

题干与答案(如有)应该分开标注,题是题,答案是答案,题里面不能包含答案。



9、图片来源字符格式有误