g-exam

exam template for Typst

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Version 0.3.0

1 Introduction

This template provides a way to generate exams. You can create questions and sub-questions, header with information about the academic center, score box, subject, exam, header with student information, clarifications, solutions, watermark with information about the exam model and teacher.

2 Usage

This is the minimum model for generating an exam, in which you define the g-exam template and the questions and subquestions with the g-question and g-subquestion commands.

```
#import "@preview/g-exam:0.3.0": *
#show: g-exam.with()

#g-question(point: 2)[List prime numbers]
#v(1fr)

#g-question(point: 1)[Complete the following sentences]
  #g-subquestion[Don Quixote was written by ...]
  #v(1fr)

  #g-subquestion[The name of the continent we live on is ...]
  #v(1fr)
```

3 Header

```
#show: g-exam.with(
  author: (
    name: "Andrés Jorge Giménez Muñoz",
    email: "matheschool@outlook.es",
    watermark: "Teacher: andres",  ),
  school: (
    name: "Sunrise Secondary School",
    logo: read("./logo.png", encoding: none),
  ),
  exam-info: (
    academic-period: "Academic year 2023/2024",
    academic-level: "1st Secondary Education",
    academic-subject: "Mathematics",
    number: "2nd Assessment 1st Exam",
    content: "Radicals and fractions",
    model: "Model A"
  ),
```

4 Information in the document's metadata

If a pdf document is generated, the information will be saved in the document. Such as the author's name, e-mail, watermark, exam information, ...

```
#show: g-exam.with(
  author: (
    name: "Andrés Jorge Giménez Muñoz",
    email: "matheschool@outlook.es",
    watermark: "Teacher: andres",  ),
  school: (
    name: "Sunrise Secondary School",
    logo: read("./logo.png", encoding: none),
  ),
```

```
    exam-info: (
      academic-period: "Academic year 2023/2024",
      academic-level: "1st Secondary Education",
      academic-subject: "Mathematics",
      number: "2nd Assessment 1st Exam",
      content: "Radicals and fractions",
      model: "Model A"
    ),
```

This information can be consulted in the properties of the pdf document.

5 Commands

5.1 Exam

```
/// User g-exam template
#show: g-exam.with()
```

5.1.1 g-exam

Template for creating an exam.

- autor: Infomation of autor of exam.
  ‣ name (string, content): Name of author of exam.
  ‣ email (string): e-mail of author of exam.
  ‣ watermark (string): Watermark with information about the author of the document.
- scholl: Information of scholl.
  ‣ name (string, content): Name of the school or institution generating the exam.
  ‣ logo (none, content, bytes): Logo of the school or institution generating the exam.
- exam-info: Information of exam
  ‣ academic-period(none, content, str): academic period.
  ‣ academic-level(none, content, str): acadmic level.
  ‣ academic-subject(none, content, str): acadmic subname,
  ‣ number(none, content, str): Number of exam.
  ‣ content(none, content, str): Conten of exam.
  ‣ model(none, content, str): Model of exam.

Parameters

g-exam(
  author,
  school,
  exam-info,
  languaje: `en` `es` `de` `fr` `pt` `it`,
  localization,
  date: `sting`,
  keywords: `string`,
  clarifications: `string` `content` `array`,
  question-text-parameters,
  show-studen-data,
  show-grade-table,
  decimal-separator,
  question-point-position,
  show-solution,
  body
)

languaje `en` or `es` or `de` or `fr` or `pt` or `it`

Languaje of docuemnt. English, Spanish, German, Portuguese and Italian are defined. Ejemplo buy bonito:

Default: `"en"`

date `sting`

Date of generate document.

Default: `none`

keywords `string`

keywords of document.

Default: `none`

clarifications `string` or `content` or `array`

Clarifications of exam. It will appear in a box on the first page.
- question-text-parameters: Parameter of text in question and subquestion. For example, it allows us to change the text size of the questions.
- show-studen-data(none, true, false, "first-page", "odd-pages"): It shows a box for the student to enter their details. It can appear on the first page or on all odd-numbered pages.
- show-grade-table: (bool): Show grade table.
- decimal-separator: (".", ","): Indicates the decimal separation character.
- question-point-position: (none, left, right): Position of question point.
- show-solution: (true, false): It shows the solutions to the questions.

Default: `none`

The `g-exam` library has the `g-question`, `g-subquestion`, `g-solution` and `g-clarification` commands to create questions, subquestions, solutions, and clarifications.

5.2 Questions and subquestions

5.2.1 g-question
Show a question.

Example:

```
#g-question(point:2)[This is a question]
```

Parameters

g-question(
  point: `none` `float` ,
  point-position: `none` `left` `right` ,
  body: `string` `content`
)

---

point   `none` or `float`

Points of the question.

Default: `none`

---

point-position   `none` or `left` or `right`

Position of points. If none, use the position defined in G-Exam.

Default: `none`

---

body   `string` or `content`

Body of question.

5.2.2 g-subquestion

Show a sub-question.

Example:

```
#g-subquestion(point:2)[This is a sub-question]
```

Parameters

g-subquestion(
  point: `none` `float` ,
  point-position: `none` `left` `right` ,
  body: `string` `content`
)

---

point   `none` or `float`

Points of the sub-question.

Default: `none`

---

point-position   `none` or `left` or `right`

Position of points. If none, use the position defined in G-Exam.

Default: `none`

> **body** `string` or `content`
>
> Body of sub-question.

5.3 Solutions

5.3.1 g-solution

Show solution of question.

Example:

```
#g-solution(
    alternative-content: v(1fr)
 )[
 I know the demostration, but there's no room on the margin. For any clarification ask
Andrew Whilst.
]
```

Parameters

g-solution(
  alternative-content: `string` `content` ,
  body: `string` `content`
)

> **alternative-content** `string` or `content`
>
> Alternate content when the question solution is not displayed.
>
> Default: none

> **body** `string` or `content`
>
> Body of question solution

5.4 Clarifications

5.4.1 g-clarification

Show a clarification.

- size(length): Size of clarification.
- body(string, content): Body of clarification.

Parameters

g-clarification(
  size,
  body
)