

GROUP PROJECT 1, FLAVOR A

Please name your group.

Jane **Doe**
12345678

The Problem

1. (5 points) Hey there's a cool math problem, let's solve it!

Me in Celeste trying to calculate the angle the bumper would send me in

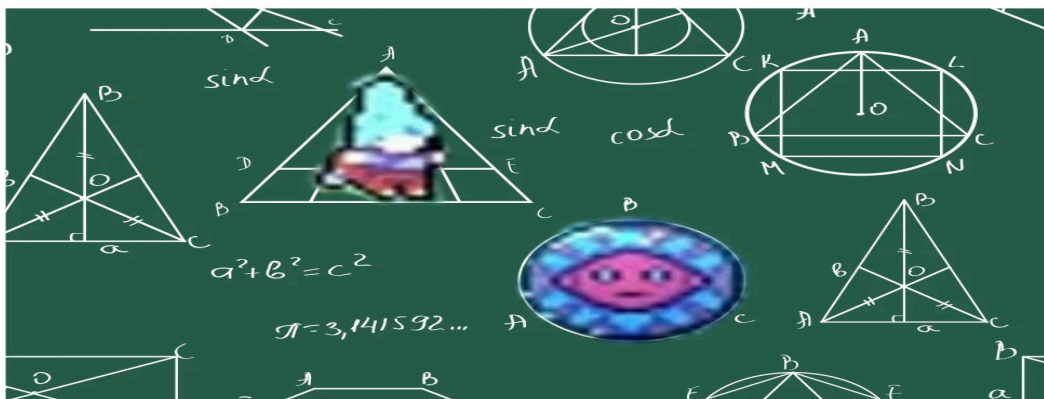


Figure 1: “[Madeline has math homework](#)” (r/celestegame)

Solution: You can do it.

User Manual

Getting Started

“So, how do I even start using Typst?”

First thing first, it is all free.

You have 2 options: working online or offline. Since this is a “group project” template, you probably want to work online for collaboration. Here is a step-by-step guide to get you started.

1. [Sign up](#) for an account on the Typst web app.
2. Follow some guides and explore a bit.
3. (Optional) Assemble a team.
 1. Dashboard → (top left) Team → New Team.
 2. Team dashboard → (next to big team name) manage team → Add member.

Voilà! You are ready to start your math group project.

Initialize Projects

To start a math group project, simply import this package (you should have done it already) and use the `setup()` function and edit `common.typ` to define the project.

Fortunately, you don't have to remember all the details. [Typst web app](#) can handle the initialization for you.

In the project dashboard, next to "Empty document", click on "Start from a template", search and select "ubc-math-group-project", enter your own project name, create, that easy!

In the project just initialized, you will see 2 files: `common.typ` and `project1.typ`.

If you are to add more projects for the same group, create no new project, but add files to the existing one, like `project2.typ`, `project3.typ`, etc.

`common.typ`

This file is for common content that can be shared across all projects. For instance, your group name and members.

```
#import "@preview/ubc-math-group-project:0.1.0": author
// Modify as you please.
#let authors = (
  jane-doe: author("Jane", "Doe", "12345678"),
  alex-conquitlam: author(
    "Alex",
    "k\u{02b7}ik\u{02b7}\u{0259}\u{019b}\u{0313}",
    99999999,
    strname: "Alex Coquitlam"
  ),
)
#let group-name = [A Cool Group]
// Additional common content that you may add.
#let some-other-field = [Some other value]
#let some-function(some-arg) = { some-manipulation; some-output }
```

`project1.typ`

Here is where you write your project content.

```
#import "@preview/ubc-math-group-project:0.1.0": *
#import "common.typ": * // Import the common content.
#show: setup.with(
  number: 1,
  flavor: [A],
  group: group-name,
  authors.jane-doe,
  // Say, Alex is absent for this project, so their entry is not included.
  // If you just want all authors, instead write:
  // ..authors.values(),
)
```

When you create more project files like `project2.typ`, `project3.typ`, copy the topmost two `import`'s and `show`. Below this `#show: setup.with(...)` is your project content.

Questions & Solutions

A math group project mostly consists of questions and solutions. You can use the `question()` and `solution()` functions to structure your content.

```

#question(1)[
  What is the answer to the universe,
  life, and everything?
  // The solution should be in the
  question.
  #solution[
    The answer is 42.
  ]
  // You can nest questions and
  solutions.
  #question[2 points, -1 if wrong][
    What do you get when you multiply six
    by nine?
    #solution[
      42\.
    ]
  ]
]

```

1. (1 point) What is the answer to the universe, life, and everything?

Solution: The answer is 42.

- (a) (2 points, -1 if wrong) What do you get when you multiply six by nine?

Solution: 42.

Learn Typst

Yes, you do have to learn it, but it is simple (for our purpose).

Here is a quick peek at some useful syntaxes:

You will sometimes *emphasize important information* in your questions and solutions. // 1 linebreak = 1 space.
 Or, go a step further to ***boldly*** state the matter. `<ex:bold>` // `<label-name>` to place a label.
 // 1+ blank lines = 1 paragraph break.

Of course, we write math equations like $x^2 + y^2 = z^2$ "with text and quantities, e.g." `qty(2, cm)$`. Need big math display?
`$ \ $ "math" \ $ = "display style math" $`
`$`

`E = m c^2 \ // " \ " = newline`
`limm_(x -> 0) f(x) = 0 #<eq:ex:lim> // Use #<label-name> in math.`
`$`
 // `#link(<label-name>)[displayed text]` to reference a label.
 // For equation, figure and bibliography, `@label-name` is also available.
 Want to get `#link(<ex:bold>)[*_bold_*]`? Let's look at `@eq:ex:lim`.

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$$\text{\$ math \$ = display style math} \tag{1}$$

$$E = mc^2 \tag{2.1}$$

$$\lim_{x \rightarrow 0} f(x) = 0 \tag{2.2}$$

Want to get **bold**? Let's look at [Equation 2.2](#).

For general techniques, consult the [Typst documentation](#).

For this template, you can find more help from the "Other helps" line at the bottom of each help section.

Other helps: `introduction`, `setup`, `author`, `math`, `drawing`, `question`, `solution`, `caveats`.