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Zoxy Instructors' Guide

Zoxy is a web application for teaching university level first-order formal logic.

This guide aims to show you the key things instructors do.

At the end of each section there is a 1-2 minute video demonstration.

You can [download this guide as a pdf](#) if you prefer.

If you don't already have a zoxy account, you might email zoxiy@warwick.ac.uk to request one.

Do some exercises

From the [main page](#) follow the link to select an exercise set, then choose the course 'UK_W20_PH126' followed by '[normal-normal](#)' as the exercise set.

You will see a list of lectures. Click any lectures to see a list of exercises to complete. Click an exercise to complete it.

To move to the next exercise, use the 'next exercise' link at the bottom of the page; to go back, use the back button on your browser.

In case you or your students need help in completing exercises, they can (i) request help from their tutor using the 'ASK FOR HELP' button,(ii) see a correct answer (where available) after first submitting their own answer using the 'SHOW AN ANSWER' button, and (iii) read the [zoxiy student guide](#) which is linked to from the main page and from each exercise.



Review your performance

If you go back to the list of lectures for the ['normal-normal'](#) exercise set, you can review your performance so far.

Click the button 'FOLLOW 'NORMAL-NORMAL''. Following an exercise adds a link to that exercise set to the [main page](#) and to the grading pages (on which more later).



Grade some exercises

To become a tutor, visit this page: [become a tutor](#). Then go back to the [main page](#), either by using the 'back' command on your browser or by clicking 'zoxiy' at the top of any page in header.

(You can always get back to the main page quickly by clicking 'zoxiy' at the top of any page in header.)

From the [main page](#) click on 'ADD TUTOR' and specify yourself as your tutor. (You can have a actual students add you as a tutor if you like; you can also create multiple zoxiy accounts for different purposes.)

When you visit [exercises to grade](#), you may not see any exercises to grade. This is because many exercises are graded automatically.

To fix this, complete any exercise which is not graded automatically, such as [this one](#).

Now go back to [exercises to grade](#) and you should see a link to the exercise you just answered at the bottom of the page.

Click [that link](#) and grade your answer.

(When grading multiple students' exercises you will see a list of all students' answers for any question so that you can mark them all on a single page.)



Create new exercises linked to your choice of textbook

From the [main page](#) click on ' [ALL EXERCISE SETS](#)' to list courses.

Near the top of the page there is a plus icon *add_circle_outline*. Click this icon to create a new course.

Creating a course takes you directly to the course page. Click the plus icon *add_circle_outline* to create a new exercise set.

Creating an exercise set takes you directly to the page for that exercise set. On this page, a black pencil (*mode_edit*) marks text you can edit directly. A blue pencil (*mode_edit*) is a link you can click to change something. Click the blue pencil (*mode_edit*) by 'Dialect' to select the first-order language and rules of proof that most of your exercises will use. (If you aren't sure what to choose)

An exercise set is a list of 'lectures' (or 'problem sheets' or whatever you want to call them). Click the plus icon *add_circle_outline* to create a new lecture. A new lecture called 'New Lecture' will appear in the list of lectures.

Click on the link New Lecture to go to the page where you can edit it. Rename the lecture by replacing 'New Lecture' with 'Problem Set 01' (or whatever you like).

A lecture is a list of 'units' (or whatever you want to call them). Click the plus icon *add_circle_outline* to create a new unit. A new unit called 'New Unit' will appear in the list of units.

Click on the link New Unit to go to the page for adding some exercises. Now click the plus icon *add_circle_outline* to create a new exercise. There are many types of exercise you can create; try creating a proof exercise to start with.

When typing sentences (or wffs) for the premise and conclusion of an exercise, write in the language of the dialect you chose above. To save time you can use words in place of symbols; e.g. when using dialect 'lpl' the FOL sentence ' $\forall x (\neg F(x) \vee G(x))$ ' can be written 'all x (not F(x) or G(x))'. Likewise, when using dialect 'teller', the sentence could be written '(all x) (not Fx or Gx)'

If you see 'cannot save exercise because there are errors in your input', you probably make a mistake typing a sentence (or wff) in a first-order language.



Copy and paste others' exercise sets

Sometimes you might want to reuse someone else's set of exercises, or a lecture or unit from them. For example, view [this unit called 'Two Things Are Broken'](#)

To copy this unit of exercises, click the copy icon (*content_copy*) near the top of the page.

Navigate back to the page for 'Problem Set 01' (or whatever you called the new lecture). Click the paste icon (*content_paste*) to add this unit to your lecture.

It is good to re-use exercises because this enables zoxy to recycle feedback tutors gave in the past when grading that exercise.



Delete courses (and exercise sets, lectures, units etc.)

(Note: it is possible to hide exercise sets rather than deleting them. Hiding an exercise set means that students won't normally find it unless they already have a link to it.)

To delete a course, you first need to navigate to the course webpage. You can find this in the [list of all courses](#).

Once on the webpage, you will probably see that there is no 'delete' button anywhere next to the course. This is because a course cannot be deleted if it either has content or followers.

Before you can delete a course, you first need to delete all of its content. To do that, click on the link for any exercise, and then on the black pencil (*mode_edit*) to edit the exercise set. On the edit page you will see a blue delete button (*delete*) that will allow you to delete each lecture in this exercise set.

Once you have deleted all the lectures from an exercise set, you will see that a new red delete button (*delete*) has appeared. Clicking this button will allow to delete the exercise set. And deleting the exercise set will return you to the page for your course (since the exercise set doesn't exist any more).

Deleting all exercise sets associated with a course will unlock another red delete button (*delete*) that will allow you to delete the whole course.



Set exercises for your students to complete

When you want to tell your students which exercises to complete, let them have a url ('link', 'web address') for an exercise set, or a specific lecture or unit, or even for a specific exercise.

The link to share is just the link in the address bar of your browser when you are looking at the page you want your students to see.

If you have a course page, you can include links to exercises on zoxy in the same way you include links to handouts and other materials.



Get an overview of students' progress

You can check your students' progress by selecting the [Tutees' Progress](#) link from the [main page](#). (Note that you will only see this link from after becoming a tutor.)



Manage several tutors as an instructor

An instructor is normally someone who one or more tutors grade for. The instructor can see an overview the tutors' grading. (She can also review her tutors' students' progress if necessary.)

To become an instructor, visit this page: [become an instructor](#). Then go back to the [main page](#).

From the [main page](#) click on 'ADD INSTRUCTOR' to add yourself as your instructor. Note that for now you will have to type your email address exactly, matching the case, to set the instructor correctly. (You can have an actual tutor add you as an instructor. If you like, you can also create multiple zoxy accounts for different purposes; but this isn't necessary.)

Now when you visit the page called ' [My Tutors](#)', you find links giving you a summary of each tutors' students' progress. This enables you to quickly check whether students are completing exercises are whether tutors are grading exercises.



Ensure exercises are graded automatically

Where exercises are not graded automatically, zoxiy will can match students' answers against answers that have been graded in the past. So if you are setting an exercise involving multiple choices or a free text answer, it is usually worth answering your question and grading it.

Navigate back to the page for 'Problem Set 01' (or whatever you called the new lecture above). Go to any unit. Add an exercise: select 'answer some true/false multiple choice questions' as the type of exercise and include three free-text questions.

After creating the exercise you will see a link to it at the end of the list of exercises. Click that link to answer the exercise. Enter a correct answer and submit it.

Click the 'GRADE' button at the top right of the page on which you just submitted the exercise. Mark your answer as correct.

Return to the exercise and submit a different answer. It will be marked incorrect automatically.

If you add a comment to any of the answers while grading, all students who subsequently submit that answer will automatically get the same comment from you.

