

Adding A CodeLab

If you are a new instructor, you probably don't yet have any CodeLabs set up yet. To add a CodeLab click the **+Create a Course** button (which is always present when you're in the "Courses" area).

Terminology Note: In the CodeLab world, specific CodeLabs are referred to interchangeably as

- CodeLabs
- Courses
- Sections

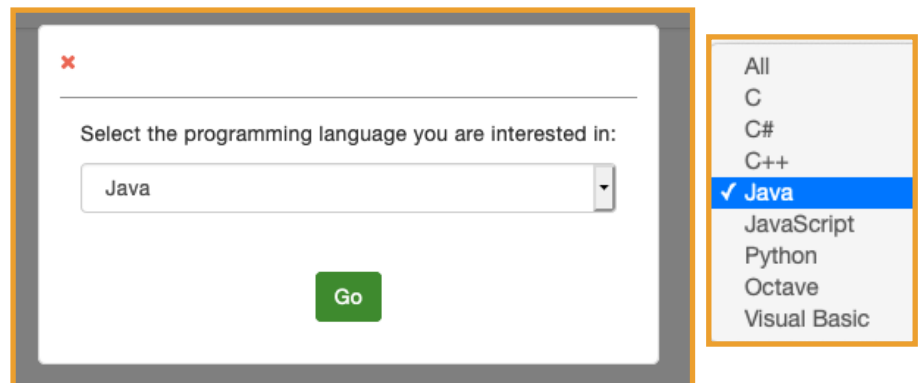


CodeLabs are created by *cloning* other CodeLabs. Cloning means copying the content and a very small set of other attributes (like the course title). These attributes and the content can be modified by the instructor later. The cloneable CodeLabs come from three sources:

- Standard model CodeLabs (that match *commonly used pedagogical approaches*)
- CodeLabs that model *commonly used textbooks*
- CodeLabs used *previously in your school*, by you or your colleagues.

SELECTING A LANGUAGE.

If you are brand new and don't yet have any CodeLabs, you will first be asked to identify the programming language of interest for your new course. (Your choice is not final-- it can be changed at any point in the process.)



FINDING A CODELAB MODEL

After selecting language you will get a screen with two or more tabs:

Standard Models

Textbook Models

(possibly other tabs)

Initially, **Standard Models** will be selected (see below). *At the time of writing this manual, there is often just one standard model per language, but this will change in the future, as we continue to build models that take into account different pedagogical approaches.*

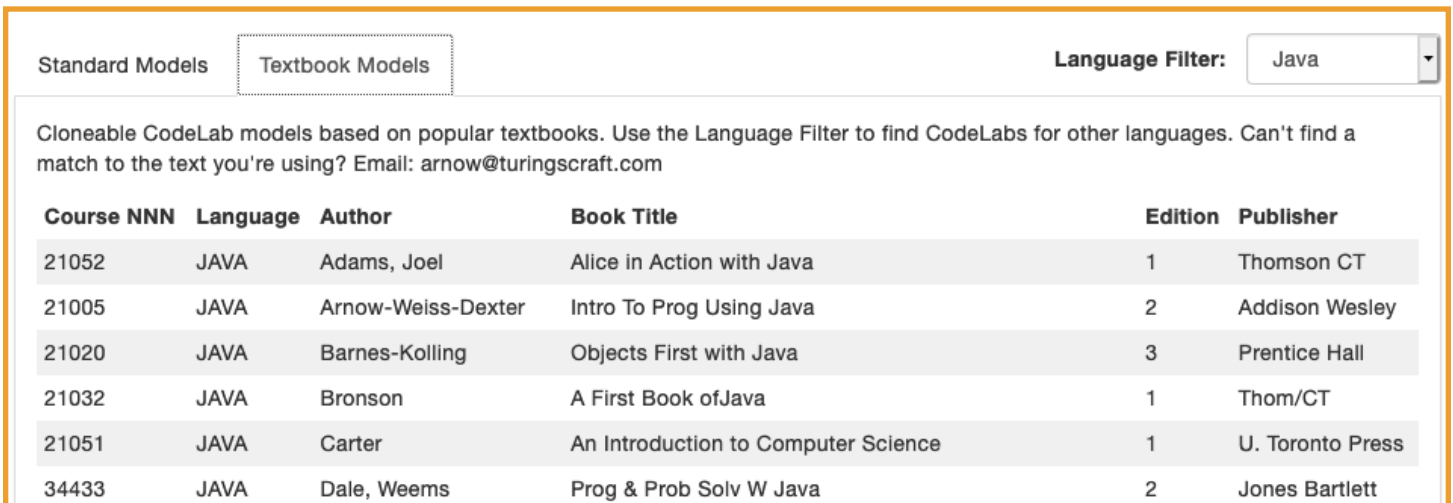


The screenshot shows the 'Create a Course' page. At the top, there are two tabs: 'Standard Models' (selected) and 'Textbook Models'. To the right, there is a 'Language Filter:' dropdown menu currently set to 'Java'. Below the tabs, there is a text instruction: 'Choose from the list below of common course organizations. Click an entry for expanded information, and click the clone button to create the CodeLab. Use the Language Filter to find CodeLabs for other languages.' Below this is a table with the following data:

Course NNN	Language	Course Title
#34060	[JAVA]	Generic JAVA CodeLab

(Note the language filter on the far right— it can be changed at any time.)

Clicking Textbook Models yields a list of books for which Turing's Craft has developed CodeLabs:



The screenshot shows the 'Textbook Models' tab selected. The 'Language Filter:' dropdown is still set to 'Java'. Below the tabs, there is a text instruction: 'Cloneable CodeLab models based on popular textbooks. Use the Language Filter to find CodeLabs for other languages. Can't find a match to the text you're using? Email: arnow@turingscraft.com'. Below this is a table with the following data:

Course NNN	Language	Author	Book Title	Edition	Publisher
21052	JAVA	Adams, Joel	Alice in Action with Java	1	Thomson CT
21005	JAVA	Arnow-Weiss-Dexter	Intro To Prog Using Java	2	Addison Wesley
21020	JAVA	Barnes-Kolling	Objects First with Java	3	Prentice Hall
21032	JAVA	Bronson	A First Book of Java	1	Thom/CT
21051	JAVA	Carter	An Introduction to Computer Science	1	U. Toronto Press
34433	JAVA	Dale, Weems	Prog & Prob Solv W Java	2	Jones Bartlett

HOW DO DIFFERENT CODELABS DIFFER?

It is important to remember that for any given language, all CodeLabs generally have the same exercises. CodeLabs for the same language differ, for the most part, only in their organizations-- their topic sequencing. One might do objects early, another objects late; for loops before while loops... or vice versa.

Instructors have full control over the organization and can change it at any time.

If You're Not The First In Your School ...

If other faculty in your school have used CodeLab, you will probably see a third tab Your School, listing CodeLabs of your colleagues that you could clone:

Your School Standard Models Textbook Models

If You Already Have CodeLabs ...

And if you have CodeLabs of your own, they will show up as cloneable CodeLabs in a tab labeled Your Sections.

Your Sections Your School Standard Models Textbook Models

CHOOSING A CODELAB MODEL

Click on any CodeLab model listed to reveal more details about the model. On the right side will be the table of contents (TOC) for that model. For each topic in the TOC, on the right you will see an integer indicating the number of exercises provided within the topic.

The screenshot shows the CodeLab interface with a list of models and a detailed view of a selected model. The interface includes a language filter set to Java and a list of models with columns for Course NNN, Language, Author, Book Title, Edition, and Publisher. A modal window is open for the model 'Java For Everyone' (Course NNN 51584), showing a 'Clone' button and 'Book Information' (Author: Horstmann, Book Title: Java For Everyone, Edition: 1, Publisher: Wiley). The modal also displays a 'TABLE OF CONTENTS' with a list of topics and the number of exercises (# EX.) for each. A callout box points to the 'CodeLab TOC (based on text)' and another points to the '# exercises for chapter 3.' in the TOC.

Course NNN	Language	Author	Book Title	Edition	Publisher
21052	JAVA	Adams, Joel	Alice in Action with Java	1	Thomson CT
21005	JAVA	Arnow, Weiss, Dexter	Intro To Prog Using Java	2	Addison Wesley
21020	JAVA		Java For Everyone		Prentice Hall
21032	JAVA		Java For Everyone		Thom/CT
21051	JAVA	Horstmann	Java For Everyone		U. Toronto Press
34433	JAVA		Java For Everyone		Jones Bartlett
21048	JAVA		Java For Everyone	1	MH
31919	JAVA		Java For Everyone		JB Learning
34766	JAVA		Java For Everyone		Green Tea
42070	JAVA		Java For Everyone		Eck
33411	JAVA		Java For Everyone		JB Learning
21002	JAVA		Java For Everyone		Wiley
44743	JAVA		Java For Everyone		Wiley
31409	JAVA		Java For Everyone		Wiley
48120	JAVA		Java For Everyone		Wiley
51584	JAVA	Horstmann	Java For Everyone	1	Wiley
30035	JAVA	Kolling	Intro to Prog with Greenfoot	1	Prentice Hall
35550	JAVA	Kolling/Parrish	Intro To Prog. with Greenfoot	2	Prentice Hall
48539	JAVA	Lambert-Osborne	Java a la Lambert-Osborne	4	Course-Tech
35981	JAVA	Litvin and Litvin	Java Methods	2	Skyllit
51587	JAVA	Malik	From Prob Analysis to Prog Design	4	Cengage

TABLE OF CONTENTS	# EX.
Java For Everyone	697
CodeLab Warmup	5
CH1 Introduction	21
CH2 Fundamental Data Types	132
CH3 Decisions	90
CH4 Loops	45
CH5 Methods	51
CH6 Arrays and Array Lists	92
CH7 Input/Output and Exception H...	64
CH8 Object and Classes	76
CH9 Inheritance	54
CH10 Graphical User Interfaces	15
CH11 Advanced Graphical User Int...	0
CH12 Object-Oriented Design	8

The TOC is interactive-- click the controls on the left to expand and contract the TOC tree so as to get a good sense of the topics that the CodeLab exercises cover.

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▶ CodeLab Warmup	5
▶ CH1 Introduction	21
▶ CH2 Fundamental Data Types	132
▼ CH3 Decisions	90
▶ 3.1: The if Statement	14
▶ 3.2: Comparing Numbers and Strings	32
▶ 3.* Divisibility and Parity	3
▶ 3.3: Multiple Alternatives	8
▶ 3.4: Nested Branches	2
▶ 3.5: Problem Solving: Flowcharts	0
▶ 3.6: Problem Solving: Test Cases	0
▶ 3.7: Boolean Variables and Operators	27
▶ 3.* Techniques	4
▶ 3.* Selection Operator	0
▶ CH4 Loops	45
▶ CH5 Methods	51

CLONING THE CODELAB MODEL

Peruse the various model entries and when you find something that seems to come close to matching your plans, click the Clone button. You will get a Very Tall pop-up form (see on the right) that allows you to revise various attributes (course title, course number, section number, etc.) for the section-- they can all be amended later, so don't worry about missing something at this point.

However, one essential item is the **Enrollment Deadline** — choose a realistic date that makes sense for your course, and when finished, click the **Clone** button (a second one).

Clone Section

To complete the cloning process, click the CLONE button below, after making any desired configuration changes. (Note: you can always configure later.)

Cloned from: #51584 - Java For Everyone

Instructor of Record: dma dma
Language: java
Price per student: 25
Content ID: 0

Modify the information for the new section (current values are grayed out)

Instructor Information

Email Address: prof@someschool.edu

First Name: Peter

Last Name: Hawkins

Section Information

Course Title: Java For Everyone

Course Term: Fall 2019

Course Number: 1

Section Number: tba

Meeting Times: tba

Enrollment Deadline: mm/dd/yyyy

Enrolls Until is the date after which students can no longer enroll in this course. It is important to set this date to be close to or at the end of your course. Setting this date will prevent students in future courses from mistakenly enrolling in this course. (Don't set this date for too early a date-- then your "late students" will have trouble enrolling.)

University: TC

School: Wiley

Department: Horstmann

Location: US NY

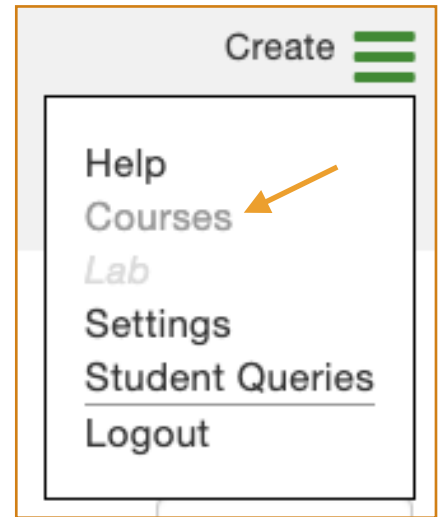
Cancel Clone

ACCESSING AND MODIFYING YOUR CODELAB.

Once completed, go to the green 3-bar menu in the upper right of the window and select **Courses**. Your new course should appear on the screen.

Click Clone to make another copy of it. Click Configure to amend its attributes and access an astounding variety of configuration options. Click Go to load the CodeLab into your Lab.

See the picture below:



▼ Fall 2019

	CourseNNN	Course #	Title	Section #	Instructor	Language	Section Access Code		
Go	53281	INFO 1214	Programming Fundamentals	(0 students)	Ins	JAVA	FANS-27159-RTDA-42	Clone	Configure