

< Previous

Next >

Syllabus

 \square Bookmark this page

The complete How to Code course consists of 2 parts. Each part is 6 weeks long, and each week consists of 1 or 2 modules. All of those modules have a similar structure, comprised of:

- An overview describing the module learning goals and summarizing the work required to complete the module.
- A number of blended topic lectures, consisting of video interspersed with questions for you to answer.
- A set of problems that will let you practice the new design techniques before the quiz.
- A module quiz. The module quiz is either a set of questions on the week's material, or a self-assessed design problem.
- A module wrap up.

The following chart provides an overview of the course topics:

Week	Module Name	Lectures	Time to complete	Practice Problems	Quiz
	Overall learning goal				Quiz
	of the course, Simple Data , coving lists and trees.	ers BSL, the HtDF,	HtDD and HtDW Recipes, Co	mpound Data, and arbitrary-s	ized data
1	Mutual Reference	5	6-7 Hours	1	Multiple Choice Design Quiz
	Learn to design with mutually referential data.				Design Quiz
2	Two One-Of Types	2	3-5 Hours	2	Self-Assessed
	Learn to use a cross-product of type templates table to design functions operating on two complex pieces of data.				Design Quiz
	Local	6	8-10 Hours	4	
	Learn to use local expressions in your function designs.				
3	Abstraction	7	8-12 Hours	3	Multiple Choice Design Quiz
	Learn how to design functions that are more general and versatile using abstraction.				Design Quiz
4	Generative Recursion	3	5-6 Hours	2	Multiple Choice
	Learn how to use generative recursion to create fractals.				Design Quiz
	Search	9	8-9 Hours	0	
	Expand on generative recursion to solve search problems, such as Sudoku.				
5	Accumulators	5	9-10 Hours	3	Multiple Choice
	Learn how and when to use accumulators in several ways.				Design Quiz
6	Graphs	4	7-8 Hours	3	Final Project
	Learn to identify when information naturally forms a graph, and learn to write functions operating on such data.				