

The background of the slide features a large, faint watermark of the University of Turin logo. The logo is circular and contains the text "UNIVERSITA' DEGLI STUDI DI TORINO" around the perimeter. In the center, there is a depiction of a building with a dome and a flag on top. The watermark is light gray and serves as a background for the text.

# Computer Programming

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# Who am I?

**Alberto Casagrande**

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# What is this course about?

An intro to the **art of computer programming** in C  
+  
some other useful notions

We will see:

- what a programming language is
- how source code is related to applications
- some fundamental problem solving strategies
- few basic notions on OS and shells

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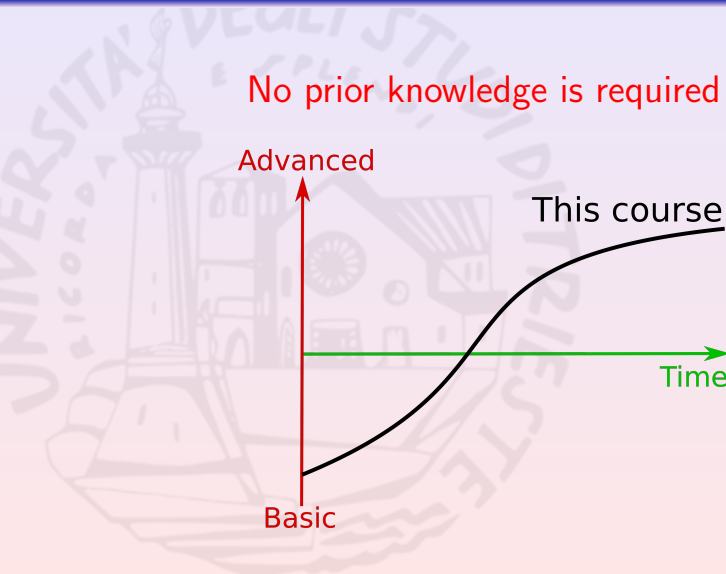
No prior knowledge is required

Advanced

This course

Time

Basic

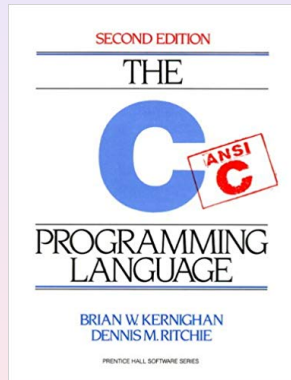




## Suggested Textbook

### **The C Programming Language (2nd Edition)**

Kernighan, Ritchie  
Prentice Hall



You can find many free books and tutorials on-line.

## Course material

You can find it on Moodle as soon as released

<https://moodle2.units.it/course/view.php?id=4430>

The password is **cp\_2019@**

# How will we learn?

- 
- 1 Frontal lessons
  - 2 Examples of code
  - 3 Exercises and homework (no evaluation)

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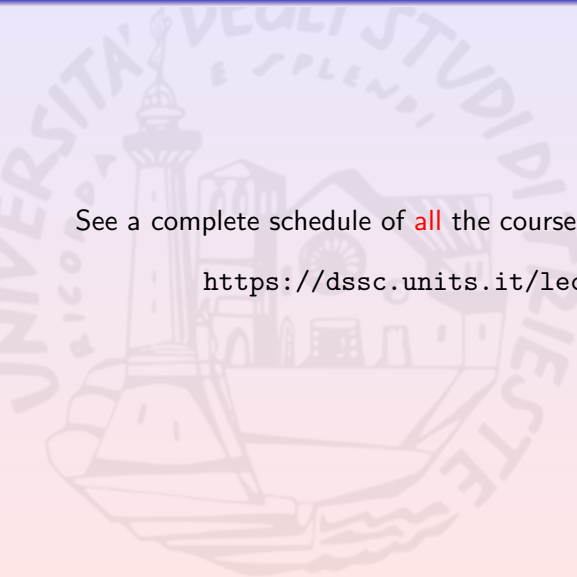
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# When?

See a complete schedule of **all** the courses at

<https://dssc.units.it/lecture-plan-0>.



# Why learning computer programming?

- practice both analysing and formalizing complex problems
- perform tasks that are “hard” for human being (e.g., how many different ways to change 1M of euro in coins exist?)
- improve the efficiency of activities through automation (e.g., engine control)
- have fun (e.g, challenging friends for the shortest program that solves a given problem)

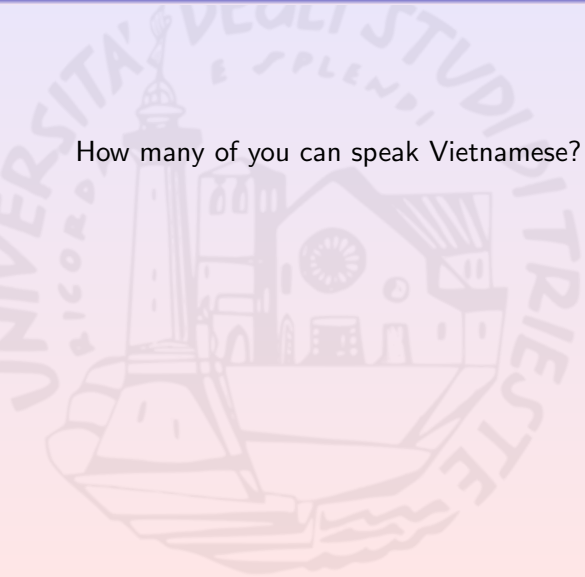
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- survive DSSC program
- ...



## How much study?

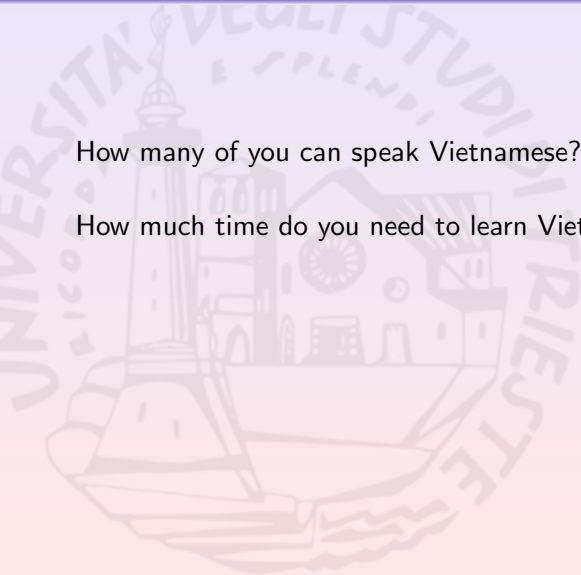
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## How much study?

How many of you can speak Vietnamese?

How much time do you need to learn Vietnamese?



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How many of you can speak Vietnamese?

How much time do you need to learn Vietnamese?

Programming languages are easier than Vietnamese, but still programming **languages**.

You have to exercise!!!

# What about the exam?

Pre-courses do not have exams



# What about the exam?

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Many will come!!!

So, get as much as you can and exercise!!



Question time

Any question?



Coming soon...

- what are computers?
- what are programs?
- how computers do encode data and programs?
- what are programming languages?