#### **LASSONDE** PD PROFESSIONAL DEVELOPMENT

# Computer Science for Non-Technical Professionals





# <u>Overview</u>

This course aims to provide students with an understanding of the role computational thinking can play in problem solving. It also aims to help students, regardless of their professional background, to feel justifiably confident of their ability to write small programs that allow them to accomplish useful goals.

# <u>Key Takeaways</u>

Pseudocode
Variables
Conditionals
Iteration
Arrays
Objects
Functions
Sorting
Searching
Simulation

## <u>Participants</u>

This program is tailored for people with little to no programming experience. However, anyone is welcome to participate in Lassonde Professional Development's experiential learning!

### **Prerequisites**

Very basic knowledge of computer

networks and concepts of

programming

### **Program Highlights**



Program Length 12 Weeks



Tuition Fee \$495.00 CAD



Program Format Self-paced, Weekly Coaching Sessions

### Why Us?

- Learn from Shopify and Lassonde Mentors
- Receive digital badge, which provides online recognition of successfully completing the course
- Participants will be organized into guilds of 4-5, giving you an enhanced learning experience
- Certificate from Lassonde School Engineering, York University





- 1 Introduction- computer science and computational thinking
- 2 Drawing Pictures with processing-Data and Variables
- 3 Interactive Painting- functions, switch statement
- 4 Jukebox- Booleans, conditionals
- 5 Sheep Al- while loops, arrays
- Foreign Student Visualization parallel arrays, stings, algorithms, objects, recursion
- 7 Set Cover Problem- for loops, object copying, shared data
- 8 Image processing (bonus topic)



- Participants must attend all program modules and successfully complete the take-home assignment/exam to receive a certificate.
- Once the certificate is granted, you will receive a digital badge that you can share on your social media platforms.
- Participants, prospective employers and professional governing bodies can access and reference the digital badge whenever verification is requested.





### Contact Us

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