

Welcome Coders!

Things to Do Now

1. Connect to the SMU network.
 - Connect to the “SMU_Visitor” network
 - Launch any webpage & you will see the “SMU Login page”
 - Request for a wifi password
2. Collect equipment & take attendance with mentor
 - 1x micro:bit board
 - 1x USB cable
 - 1x battery holder
 - 2x batteries



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Things to Do Now

3. Download & install if you haven't done so:
 - Mu Editor: <https://codewith.mu/en/download>

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Usage of Event Photographs

SMU, as the organiser for this course, will be taking photographs during the course of the event. These photographs may later be used for commemorative, promotional, marketing & other related purposes.

**INFORM THE PHOTOGRAPHER IF YOU
REALLY DO NOT WANT YOUR
PHOTOGRAPH TAKEN**



Monkey-selfie selfie from
https://en.wikipedia.org/wiki/Monkey_selfie_copyright_dispute

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Welcome to
SMU School of Information Systems :)

Coding with Python Workshop
10th May 2019



School of
Information Systems



People



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Your Mentor

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Rules

- No abuse - treat one another with respect
- Communicate - don't just disappear! Tell me if you need to leave early.
- Use knowledge gained only for good, not evil

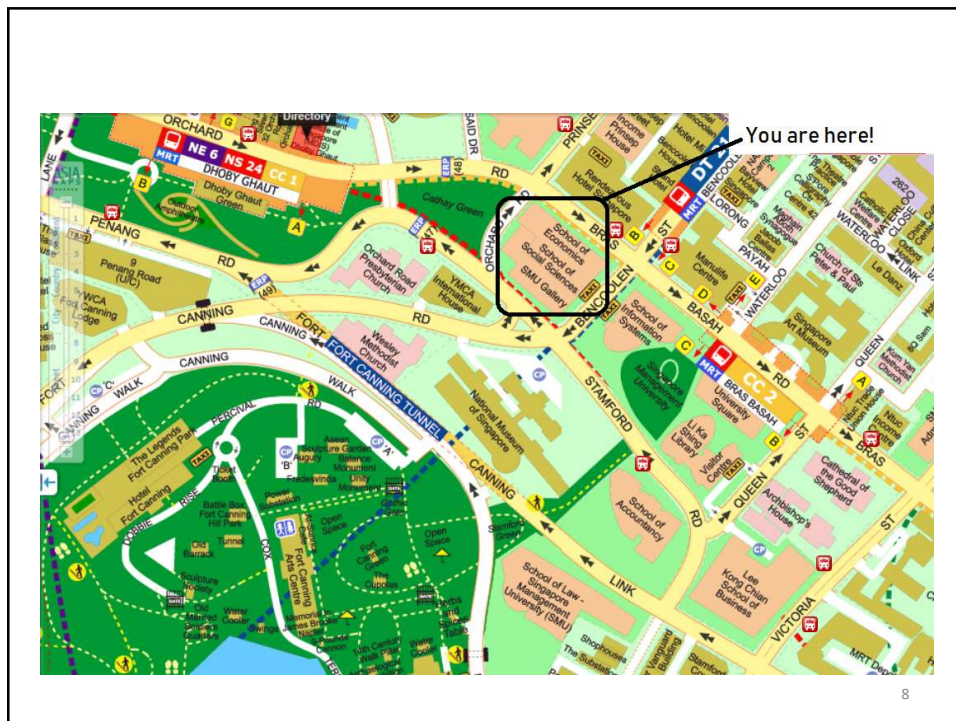


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Getting to know your surroundings

- You are at...
 - School of Economics/Social Science building
 - SAS Lab @ level 5
- Washroom (end of corridor)
- Food:
 - Koufu at basement (aka Concourse)
 - a few snack shops (e.g. Yakun) at level 1 of this building
 - Subway at level 1, SIS
 - Eating in the lab?
- Emergencies

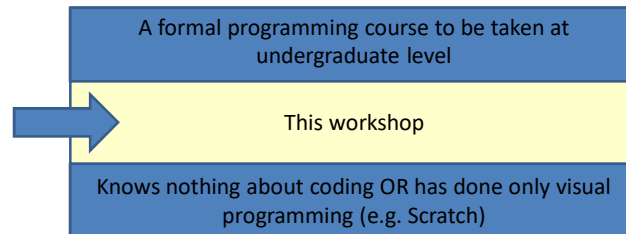
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Positioning of the Course

- For people who have never done programming before, or have only done "visual programming" (e.g. Scratch)
- Certain important programming concepts will not be covered.
- Get a "taste" of real programming in one day
- Supposed to be fun; no stress, no exam!



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What is Expected of You

- What are coders **expected** to do?
 - Be participative & responsive. Share your code!
 - Be open to criticism of your code
 - Take initiative to ask for help
 - Make new friends
 - **Enjoy the whole process!**

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By the end of today's session...

You should have:

- Be able to appreciate what programming is via hands-on experience with Python programming on the micro:bit
- Gotten a bit more familiar with SIS/SMU
- Made at least one(?) new friend

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The Pedagogy

- Learn programming using the micro:bit as a platform.
 - You will be using MicroPython to write programs that run on the micro:bit.
 - MicroPython is very similar to Python.
- For each unit, style will be:
 - Theoretical discussion
 - Run the code on your micro:bit
 - Attempt the exercises (get help if needed)
 - Wrap up the unit with some code critique

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The Pedagogy

- Syllabus is divided into 8 units to be completed sequentially
 - Don't be afraid to extend the exercises to try new stuff
 - Make mistakes, it's OK
- For faster coders:
 - attempt unit 9-10 by yourself
 - Try new topics from <https://microbit-micropython.readthedocs.io/en/latest>