Week 9 Studio 1 Supplementary Handout
New Version of Raspbian Image

What is this?
In week 9 studio 1 (SLAM studio), we found out that the Raspbian image we prepared was not working properly for newer **Raspberry Pi B+**. Hence, project groups with that particular version of Pi board were forced to use a temporary Rapberry Pi B (v1.2) board instead.

We have successfully generated an updated image that works for **both Pi B and Pi B+.** This image contains the same content as the one released for Week 9 Studio 1, i.e. ROS installation.

In addition to this updated image, we are going to replace **all Pi B** with **Pi B+** as the latter has a slightly more powerful CPU, better Wifi Antennae, more power saving options and a few other features. If your group has one of those older Pi B boards, we will arrange to replace it with Pi B+. This is to ensure fairness across all project teams. The replacement will take place in **week 11** when you are back from CELC workshops.

Do you need this image?
If you have decided to use SLAM for your project, then you need this image as it contains the necessary ROS installation for the SLAM + Visualization to work. You probably should use this image as well if your team is not sure whether to use SLAM, as this reduce the chance that you need to move files around latter when you reached a decision later.

If your team has decided NOT to use SLAM, then this image is not critical, i.e. there is no latter studios that directly requires this image to work.

1. Download the image from http://www.comp.nus.edu.sg/~sooyj/RPi_ROS_2019.img

   Note:
   The file size is **15,523,119,104 bytes** (~15Gb)
   The MD5 checksum is **873cb9b460430d95308d55944e8b78de**
   (or https://www.comp.nus.edu.sg/~sooyj/RPi_IMG_MD5.txt)

2. **Only 1 image is needed per project team.** Please arrange for a representative in the team to download the image so as not to put undue stress on the web server.

3. Follow W9S1's steps to burn the image to the SDCard and run through the steps to verify that ROS etc is working properly. Remember to backup any new source code you have added before burning the image as **it will wipe out all existing content**.