# **Monthly Meeting #1**4**:** Team **Meeting**

| **Meeting Date:** | Oct 17, 2023 8:00 PM | |
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| Meeting Time: | 8:10 PM ET | |
| Meeting Location: | Virtual | |
| Meeting Type: | Team Meeting | |
| Student Team Members: *(check box if in attendance)* | * Rachel * Vanessa * Kashish * Pamela * Elena * Nyah | |
| Other Attendees:  *(e.g., Challenge Advisor, TA)* |  | |

# MEETING AGENDA

1. Discuss setting up HPC
2. Discuss this week’s meeting times
3. Discuss how to render images from nuImages
4. Begin coding a [Colab](https://colab.research.google.com/drive/1eUEKk9TnJGgUD1-SIvN_8rjY98Z0N8dB?usp=share_link) for saving only images with pedestrian and cyclist annotations
5. Questions for Maria
   1. Set meeting agenda for the rest of the month?
   2. What are we using XML for, and what and how do we convert to XML?
   3. Using transfer learning
   4. Discuss next steps and how to integrate nuImages into the object detectors
   5. If we have time:
      1. Is one parameter more improveable than the other? transfer learning improves the precision, but is there any way to improve the speed of a model?
      2. How does transfer learning make the model more efficient with the choice of dataset?

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# ACTION ITEMS

| **Task/Assignment** | **Team Member** | **Deadline** |
| --- | --- | --- |
| General data exploration | Student team |  |
| Set up Tufts HPC (?) | Vanessa (?) |  |
| Convert the annotations to something custom object detection will need (XML file) | Student team | Oct 19, 2023 |
| Optional?: read about transfer learning for a custom object detection model: <https://medium.com/swlh/creating-your-own-custom-object-detector-using-transfer-learning-f26918697889> | Student team |  |
| Message Maria with project update and questions - DONE | Kashish | Oct 17, 2023 |
| Create training set with images that only include pedestrians and cyclists - IN PROGRESS | Student team |  |
| Figure out how to insert and render nuImages into object detection - DONE | Student Team | Oct 17, 2023 |