The Github commits are not representative of the work division within our team. Please refer to the time log below for a detailed contribution record.

Date	Contributor(s)	Task	Details of Task
11/09	All	General meeting	Define tasks: - Data collection - Data processing/augmentation - Baseline - Initial model research
11/09	Elisa, Arnaud	Start data collection	- Download Kaggle dataset (manually sort) - Collect strawberry (unripe, ripe, rotten) - Collect raspberry (unripe, ripe, rotten)
11/09	Mark	Baseline script	- Created Baseline Script for Assignment 4 images
11/10	All	General meeting	Update and redefining tasks: - Continue data collection/processing, baseline - Transfer learning research
11/10	Elisa, Arnaud	Continue data collection	- Unripe, ripe, rotten (apple, orange, banana), varied background
11/10	Mark	Baseline on our data	- Created quick baseline script for large amount of data
11/10	Arnaud	Data visualization and balancing script	- Data visualization and Data science - Data_Science_For_Frinn.ipynb
11/11	Elisa	Data augmentation script	- Applied nine transforms - data_augmentation.ipynb
11/12	Arnaud	First training loop model script	- First script for training loop end to end - multi_head_CNN_rough_work.ipynb
11/14	All	Custom data loader, Relabeller, Data normalization	- Create custom data loader - Mean and Std normalization - Splitting/Relabeller function
11/15	All	Custom data loader, Relabeller, Data normalization	- Create custom data loader - Mean and Std normalization - Splitting/Relabeller function
11/15	Elisa	Transfer learning notebook for no additional conv layer	- Researched transfer learning, trained and implemented without additional convolution layer
11/15	Mark	Transfer learning notebook	- Researched transfer learning with added

		for additional conv layer	convolution layer and multi head implementation with transfer learning
11/15	Arnaud	Multi head CNN notebook no transfer learning	- Finished and implemented multi-head CNN notebook - multihead_cnn_final.ipynb
11/16-17	All	Overfitting the three models	- Each person overfit their respective models on a subset of 150 fruit images
11/18	All	Redoing Dataloader and label splitting process	- Resolving errors with custom data loader and relabeller
11/19-24	All	Training and Hyper parameter tuning/search	- Random Hyper-parameter searching on all 3 models
11/24-25	Mark	Confusion Matrices, Sensitivity, Recall, Error analysis	- Used scikitlearn and seaborn to create confusion matrices, sensitivity, recall, and error analysis
11/25	Elisa	Collect Specialized Test sets, Set up MSEloss	- Implementing MSE loss instead of cross entropy and collecting specialized test sets
11/25	Mark	Learning rate decay	- Used Pytorch reduce on plateau to implement learning rate decay
11/25	Arnaud	Early stopping	- Researched early stopping and implemented early stopping using github repo found online
11/25-28	All	Final Hyper parameter tuning/search	- Hyperparameter searching including MSE Loss, Learning rate decay and early stopping
11/28	All	General meeting	- Settled on transfer learning with convolution layers as best model - Divided tasks for final presentation and report