

The graph illustrates the training and testing loss over 1000 epochs for various batch sizes. The x-axis represents the number of epochs, and the y-axis represents the loss. The legend identifies the following series:

- Train, batch size = 10 (dashed green line)
- Test, batch size = 10 (solid green line)
- Train, batch size = 50 (dashed blue line)
- Test, batch size = 50 (solid blue line)
- Train, batch size = 100 (dashed red line)
- Test, batch size = 100 (solid red line)
- Train, batch size = 500 (dashed cyan line)
- Test, batch size = 500 (solid cyan line)
- Train, batch size = 1000 (dashed purple line)
- Test, batch size = 1000 (solid purple line)

The training loss (dashed lines) decreases rapidly for all batch sizes and plateaus around 0.05. The test loss (solid lines) also decreases but plateaus at a higher value, around 0.1. The test loss for batch size 10 is the highest, while the test loss for batch size 1000 is the lowest, indicating that larger batch sizes lead to better generalization performance.

