Discussion Questions

1. Is the neuroscience-inspired motivation convincing? Is it a good idea to use neuroscience insights for model design?

2. Is two-stream architecture a good design choice? Do we necessarily need a fast pathway? Why not more pathways?

3. Which is more important: model architecture or the optimization protocol? Provide empirical evidence.

4. Do we need temporal modeling on spatially biased benchmarks? Why would it be useful?

5. How does the proposed method compare with prior methods in terms of the training cost? Should we care about it?6.

6. Why or why not would we want to use a video model initialized from Imagenet pretraining?

7. Will SlowFast network work on very long videos (~100s)?

8. Why does the model perform worse on certain categories?

9. The paper seems very conceptually simple. Could anybody have come up with this idea?

10. How to extend SlowFast network to different modalities?

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