Title: A Method to Establish the Spatiotemporal Evolution of Task-Related Cortical Activity from Electrocorticographic Signals in Single Trials

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- We describe a novel procedure for establishing the spatiotemporal evolution of population activity across the cortex using electrocorticographic (ECoG) signals
- This procedure localizes precisely, in individual trials, where and when task-related neuronal population activity occurs
- The ability to accurately identify the spatiotemporal progression of task-related population activity across wide areas of the cortex provides a powerful and novel tool to study task-related brain function