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**COIS-4400**

**Lab 1**   
  
*Think about what an appropriate number of components would be to use and why?*  
  
  
  
 Utilizing around 20 components in PCA is a decent decision. It keeps our photos looking great while making them more modest for PCs to deal with. Assuming we utilize more parts, the pictures approach the original but at the same time get bigger and harder to work with. Fewer parts make the photos smaller and lose significant stuff. Thus, 20 components correspond to perfect balance - not excessively large and not excessively small. It helps keep our pictures quite valuable for various things we should do with them, such as sharing them on the web or investigating them with a PC.