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Subject: programmatically guess image dimensions?  
Posted by [Jeff N.](#) on Thu, 11 Aug 2005 15:41:57 GMT  
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Hi everyone,

I have managed to run across several situations where I've wanted to take tabular data and make a "pseudo-image" cube out of the data so that I could easily use some of ENVI's statistical routines. What I want to do is write code that, given the number of records in the tabular data, comes up with the best dimensions for the pseudo-image cube. So, for example, if I have 9 records with 4 columns of tabular data, I'd like my code to tell me that this should end up being a 3x3x4 cube. If I have 13 records, I'd like it to tell me to arrange those in a 3x5 grid, with 2 "empty" pixels containing 0's. So my question is, does anyone know a good way to come up with the largest rectangle I can make to use as my image dimensions, with the fewest number of empty pixels? I won't have a huge number of records, so I don't \*think\* I need to make computational efficiency top priority. Anybody have any ideas to get me started?

Thanks!  
Jeff

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