Here is the Lab Write Up for a C++ Program to determine the dominant Eigen Value and it's corresponding Eigen Vector for a given square matrix.
The Write-Up consists of Algorithm, Flow Chart, Program, and screenshots of the sample outputs.

You can download the pdf file here: Eigen values.pdf

The embedded document below will be visible properly only on a desktop/laptop device.
Mobile Users can either download the pdf file above or go to this link: http://1drv.ms/1GRutlY

```
Enter the order of the matrix:
2

Enter the elements of matrix row-wise:
5       4
1       2

Enter the initial values of the eigen-vector:
1       0

Enter the accuracy desired:
0.001
The eigen-value is: 6.00

And the Eigen-vector is [1.00  0.25    ]
```

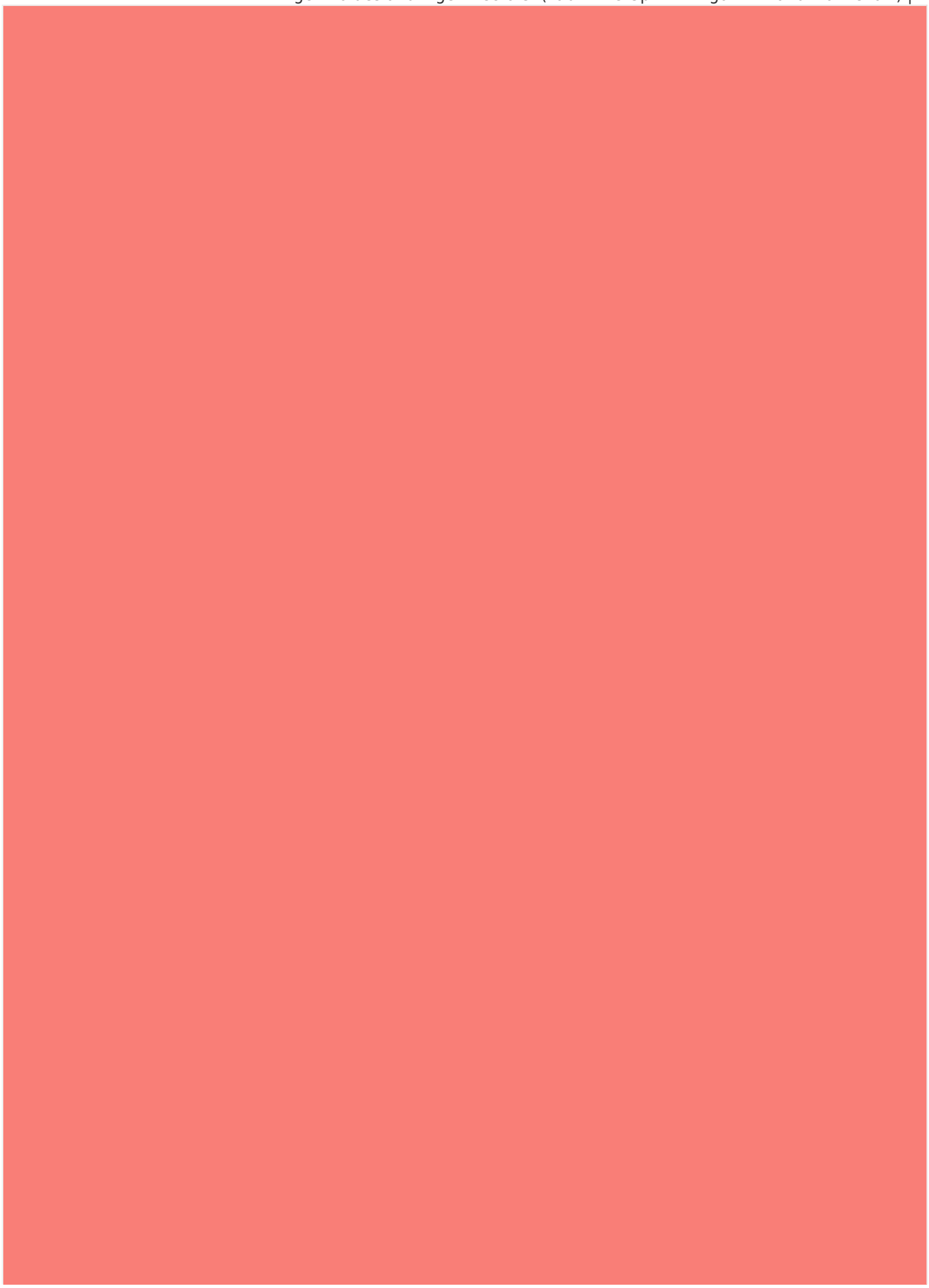
Sample Output

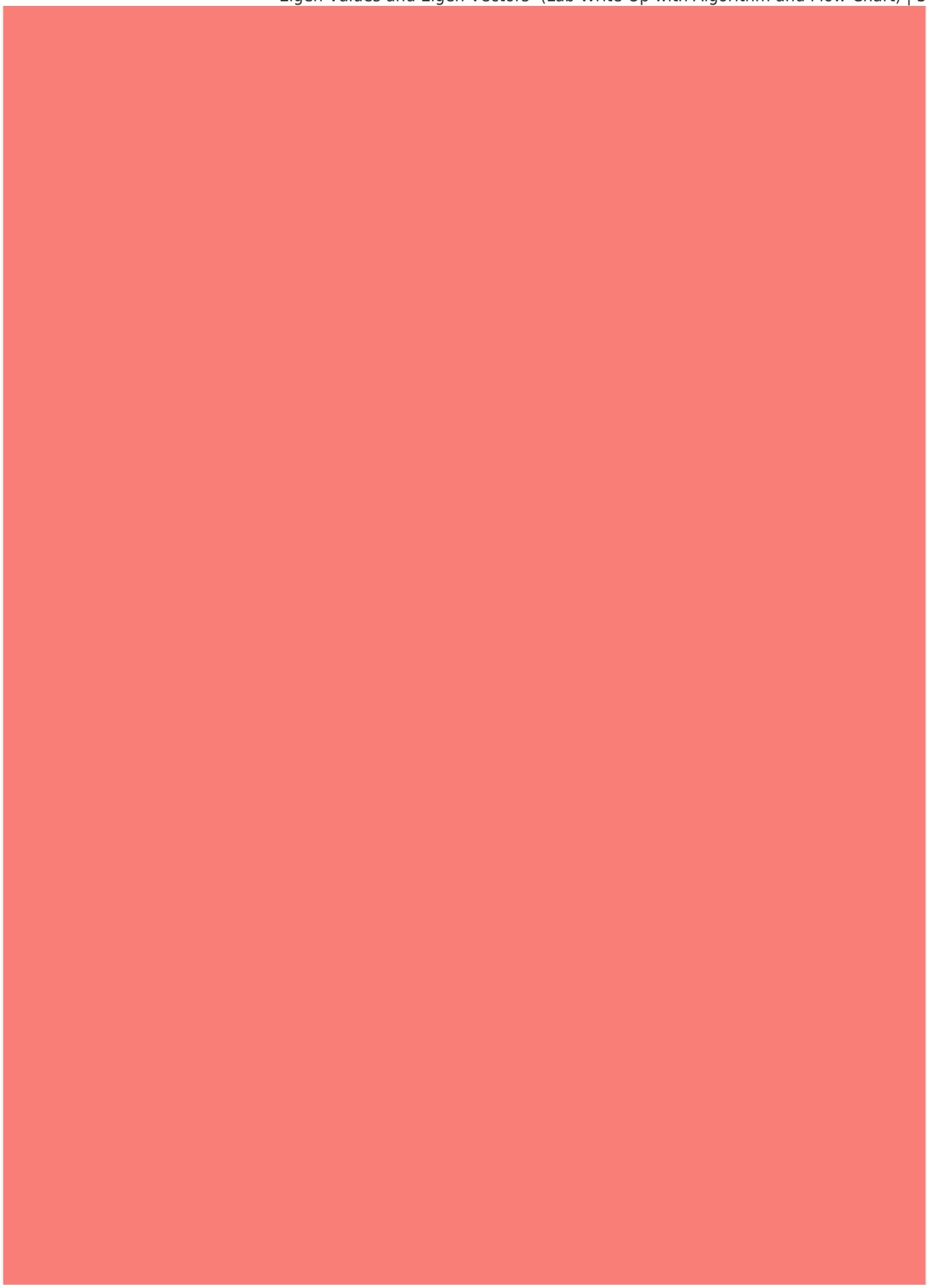


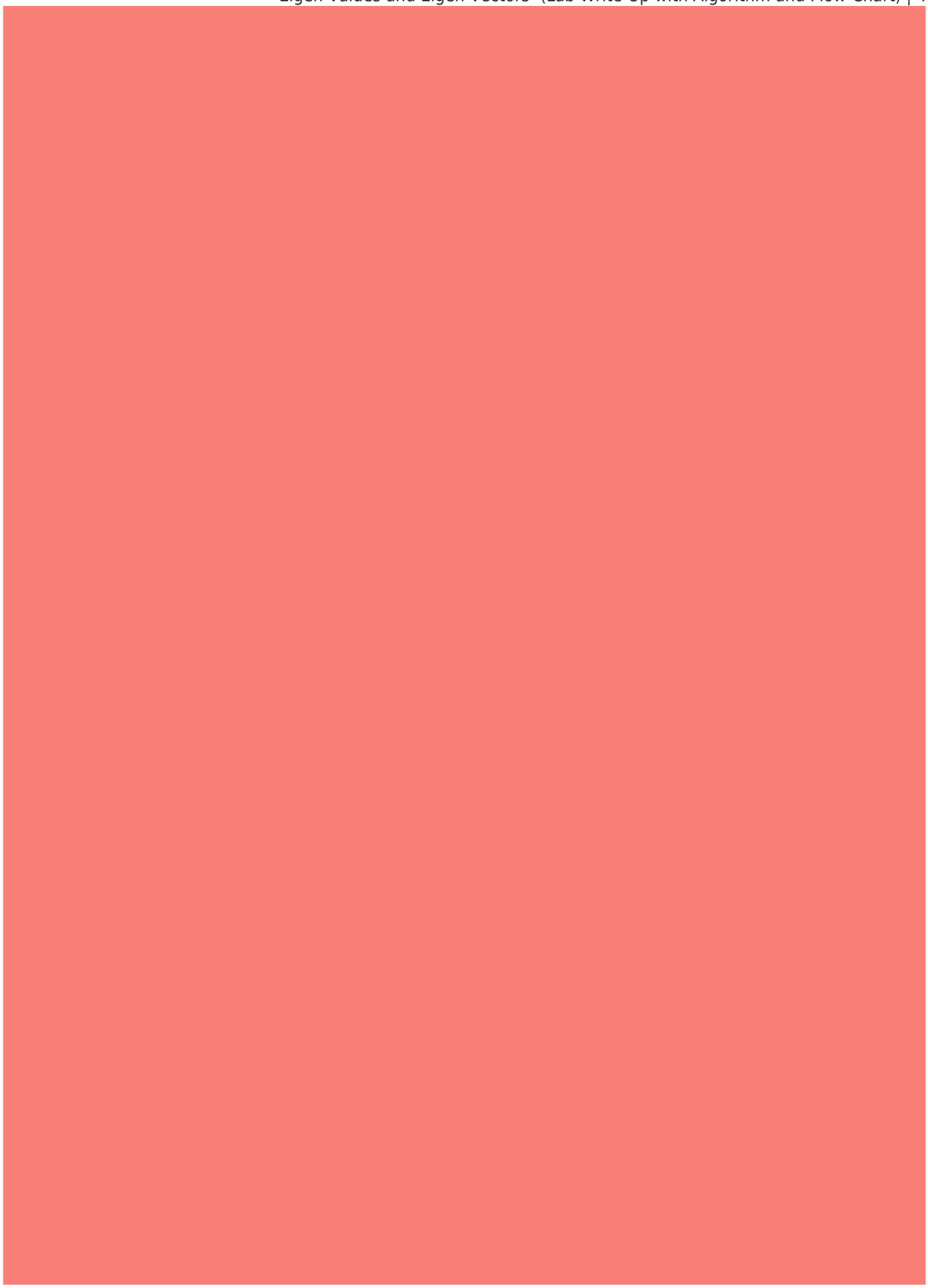
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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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