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A graphical simulation platform for teaching physics

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Abstract:

Mathematics is usually involved in learning a science subject like physics. However, it may pose unnecessary difficulties to students. To cope with the situation, some interactive graphical simulation tools can really help to overcome the difficulties with visualizations. Instead of testing out different special cases of a certain physical theory using mathematics, we can use simulation tools for the testing and understanding on the same cases. In this project, we will develop a simple numerical platform that can be used to simulate and visualize different examples in learning physics.