1125-M5-586 Luis Valero-Elizondo* (lvalero898@gmail.com), , Mexico, and Karina Mariela Figueroa-Mora. An online smart, interactive, collaborative, multilingual database of mathematical theorems and proofs.

By means of a graphical, user-friendly interface, we show how to access a free online database of mathematical theorems and proofs. Prooftopia, which can be reached at http://computo.fismat.umich.mx/prooftopia, is a website hosting a database which everyone can browse, using several advanced search options to find the theorems you want. Wherever proofs are provided, you can study those proofs at your leisure, and you can also try to prove theorems, either by following a proof you previously studied, or by writing your own original proof. In either case, the computer will make sure that all steps taken in a proof are logically sound, so when the proof is complete, the user can be sure that it's correct. All users are also welcome to add new theorems (and proofs) to the database. This website has other useful features, such as multilingual support and social network capabilities, to name a few, and we are constantly adding new functionality. (Received September 07, 2016)