

New company aims to bring 3-D printers to home users

February 13 2015, by Jessica Stoller-Conrad



Imagine you have an idea for a new object—say, a custom phone case that perfectly molds to your hand or a cupholder that attaches to your laptop. Then, an hour later, a tangible plastic version of that item materializes just a few feet away, right in your living room. This scenario might sound a bit futuristic, but New Matter, a company founded by Caltech alum Steve Schell (BS '01), is determined to make affordable, at-home 3-D printing a reality in the present.

Schell was introduced to 3-D printing—a process that uses melted plastic

to "print" three-dimensional objects—as a way to make quick industrial prototypes in his first job after graduating from Caltech with a degree in [mechanical engineering](#). The technology has been gaining popularity in recent years, but consumer 3-D printers cost over \$1,000 and require computer-programming knowledge to turn an idea into an object.

To reduce these barriers, Schell and his colleagues at New Matter came up with the MOD-t printer. By decreasing the number of components and moving parts, the company was able to dramatically cut costs; the MOD-t printer is now available for preorder from the company's website for only \$279. The [printer](#) also features user-friendly software and a marketplace where programming novices can buy and print premade designs from more experienced users.

Although at-home 3-D printing is often associated with making jewelry or decorative items, Schell says that it could also be used for more practical tasks—like making a replacement part for your dishwasher. He says the MOD-t printers should start shipping to homes in the spring of 2015.

Provided by California Institute of Technology

Citation: New company aims to bring 3-D printers to home users (2015, February 13) retrieved 8 August 2024 from <https://phys.org/news/2015-02-company-aims-d-printers-home.html>

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