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3D printing tips

3D PRINTERS

Prepare artwork for physical modelling

Get your designs off the screen and into your hands with **Rob Redman**'s guide to printing 3D models

ach day we spend hours creating designs, yet it's rare for us as 3D artists to make anything tangible. However, things are changing rapidly. With the advent of 3D printing you can now model an object, send it digitally over the internet, and within a short space of time a physical version can be delivered to your house or studio.

There are a number of machines available to enable you to do this yourself, so all you have to do is walk across the room to pick up the model. This is great for medium-sized studios, or artists who produce custom toys or who need to create rapid physical prototypes.

The costs involved are decreasing, but it's still hard for the majority of artists to justify the expense of even a 'hobbyst' machine such as the MakerBot. This is where online services come into their

own. There are a few of them around, all offering similar results, but with varying levels of cost and services. I've used Sculpteo (www.sculpteo.com) for the model opposite: it offers a broad range of services and a great quality of print, in many different materials. It also offers apps that enable you to order products directly from your iPhone or iPad.

You can choose to upload a model, buy a ready-made design or even upload a photo of yourself or your friends to have printed onto avatars. Another added bonus is that you can create a storefront for your models in much the same way as TurboSquid or other marketplace sites enable you to sell digital content – only here you can sell physical products.

There's a huge variety of objects already available, from mugs and iPhone covers through to designer lamps and jewellery. Which brings me on to another aspect of 3D printing: materials.

Although resin prints have been around for some time, you now have the option of printing in full colour, or in precious metals. There are many designers out there using sculpting applications such as ZBrush to create be

Now it's possible to upload that design directly to a storefront and start selling. No overheads are involved, and physical stock isn't necessary. Customers simply choose their design and materials, check out, and in a few days a silver ring drops through the letter box.

While this all sounds great – and it is – there are a few things to consider when preparing your first model for print. Over the page are a collection of tips to help you get the best out of your designs.







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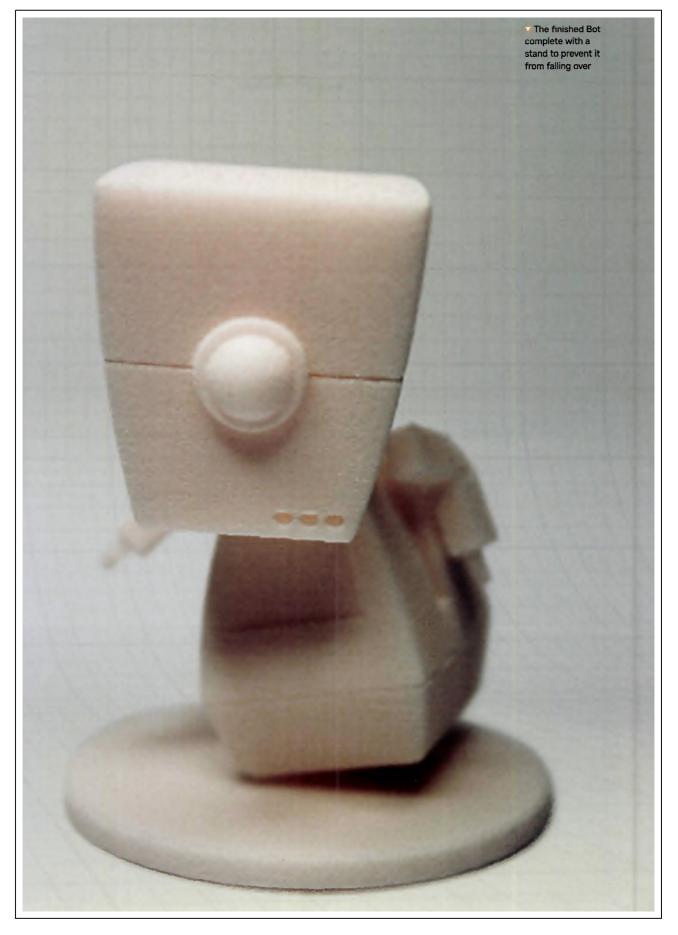
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for holes before

sending to print

want textures printed, you need to zip the UV-mapped OBJ and

understands where to find everything.

accompanying texture files into a zip file, so the automated process





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