



## What is HullPixelbot?

HullPixelbot is a little robot that was born in Hull. It carries pixels, so it is a pixelbot. It is designed to be simple to build, fun to play with and, above all, cheap to make. The chassis is made from 3D printed parts and the electronics and motors needed to get a robot up and running can be purchased for less than 10 pounds.

## What can I use a HullPixelbot for?

You can use it anywhere you need a tiny, mobile, pixel. It's a great way to explore programming and robotics. If you want to take fun photographs you can use it to spice up the lighting in them (the pixel can be very bright) or take long exposure photographs and make snazzy light trails.

We've got people trying to make a robot that will seek out the lightest part of a room, others trying to map out an area and some just getting together for the fun of building something. You'll probably not find the HullPixelbot very good at fetching the coal in, but as a way to get started with electronics and programming we don't think it can be beaten.

## How do I make one?

Simple. Just head for [hullpixelbot.com](http://hullpixelbot.com) for full instructions and a shopping list. Today we'll be giving out "pixelbot tokens" which you can bring along to Hardware Meetups at c4di to exchange for a set of 3D printed parts. If you have a friend with a 3D printer (or better yet have a printer of your own) you can download the designs and print one yourself. We like making them in wild and wacky colours, but you can make yours any way you like.

## What do I need to know?

If you've programmed before, that's great. If you've made kits before, that's useful too. But if you can't do either of those things, that's fine as well. At the hardware meetups we'll be exploring how the pixelbot works and how to program it. It turns out that you don't need to know a huge amount to get started.

## Is it expensive?

Absolutely not. We are very proud of the fact that you can make a working robot for less than ten pounds, once you've got a chassis from us. Once you've got the robot going you might fancy adding extras of your own, but these are in the "pocket money" price bracket.

## Do you have big plans for the future?

Oh yes. We want to have a go at making "emergent art" using a very large number of autonomous robots. That's a posh way of saying we want to get around 100 robots together in an arena, turn them all on, light them up and see what happens. If they all show different colour pixels we think we should get something interesting. Then we want to have a go at making some networked Hull Pixelbots so that we can control all the robots at once and do some really interesting things.

## Sounds great. Where do I sign up?

You can register at [hullpixelbot.com](http://hullpixelbot.com) for more information. You can also find details there of the hardware meetups that we hold every fortnight or so.

