

CATaLOG

An RFID Cat Tracker

Pete Prior





Wanted to see when our two new cats went in and out of the house

1) Attach an RFID tag to each of them

2) Build something that could read It

3) Make it tell something when it sees one







It's a fun and interesting project to work on

Something involving unpredictable things

Combines two things I'm passionate about





RFID bling

- Increased safety
 - We know if they've been out too long
 - We know if they're not going out at all

Don't have to be shut in when we're away







Hoping other people try something similar

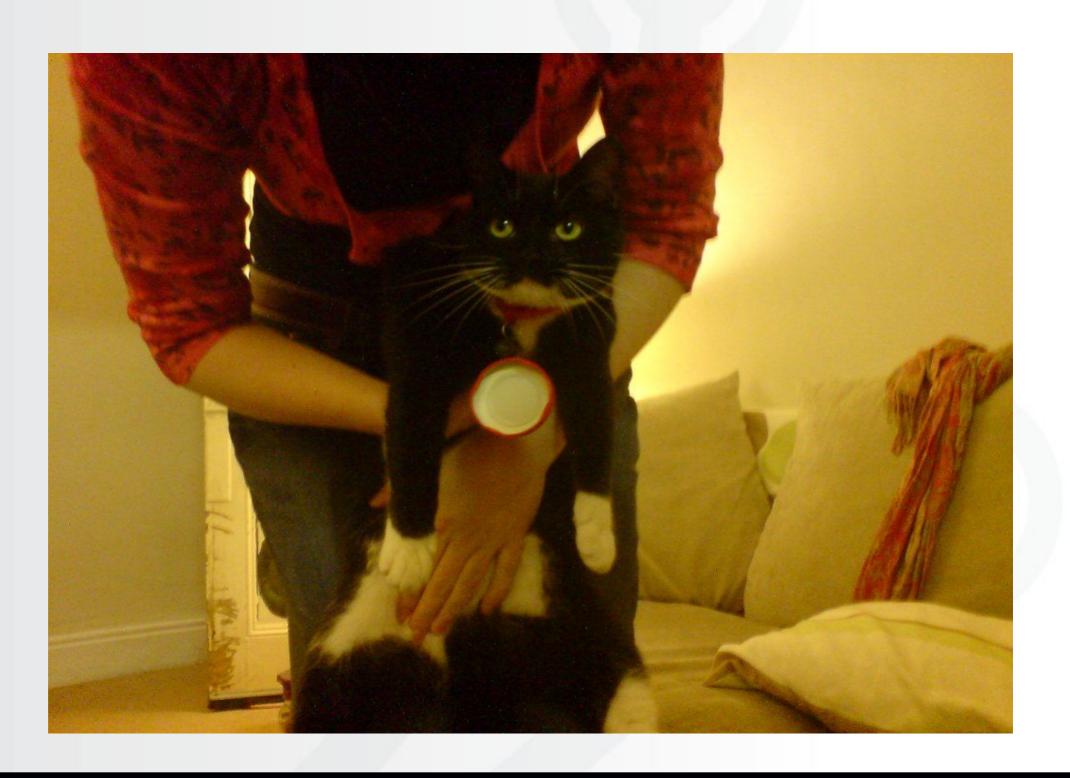
Could do with ideas for improving it

Motivated me to complete it



The stars - Bobbin





The stars - Tuffin









Little chip which stores a number

Chip attached to an antenna



 Reader's radio signal powers chip enough to respond with the number stored on it







RFID tag glued to cat's nametag

Reader by the catflap

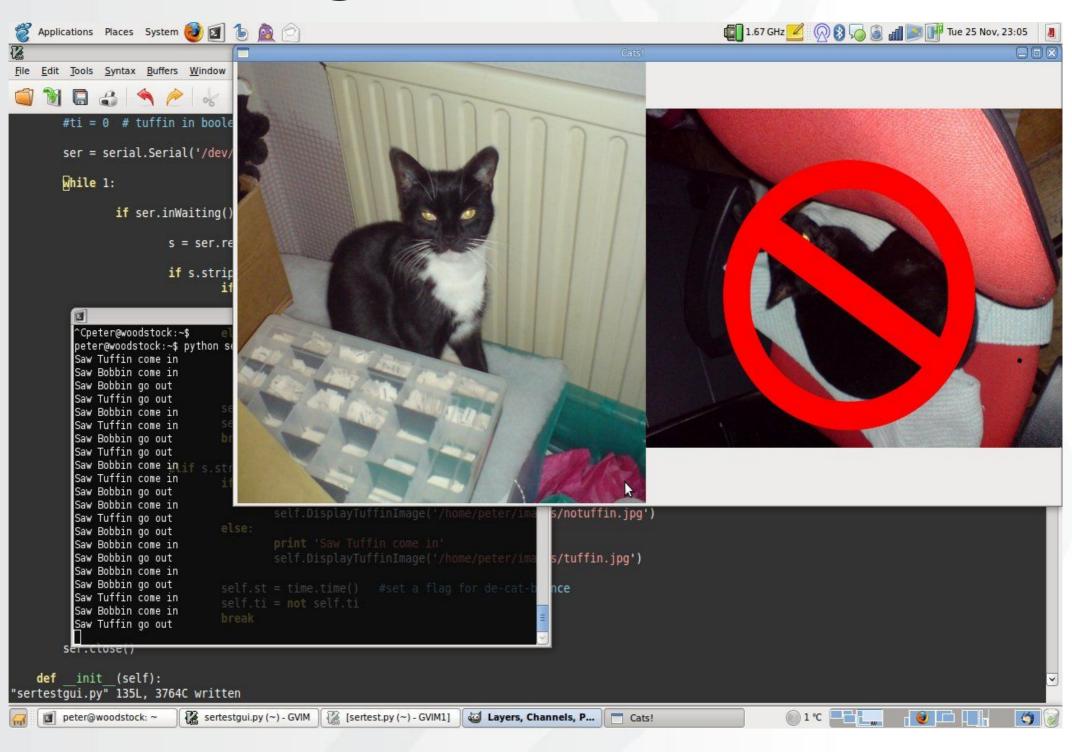
Microcontroller talking to remote server

Switches to manually set a cat in or out



Testing the RFID reader









"Incompatible is what two compatible pieces of hardware become when you try to connect them together"

- Unknown

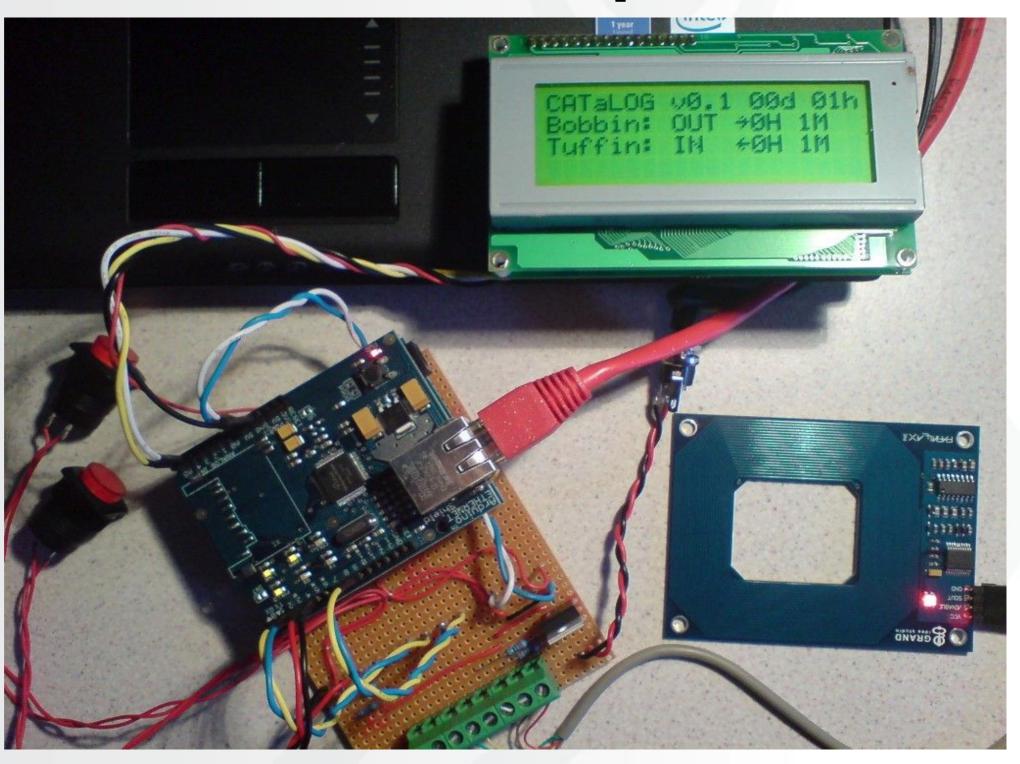
A cheaper solution?





The setup





It talks to twitter...





BobbinAndTuffin Bobbin has gone IN

less than a minute ago from web

http://twitter.com/BobbinAndTuffin

...to us...





...and the web



CATaLOG

Current Cat Status



Bobbin

Last seen at 22:33 on Thursday
Been in for 0 minutes.



Tuffin

Last seen at 10:16 on Thursday
Been out for 12 hours and 17 minutes.

Data from the CATaLOG project





Infra-red beam each side of the cat flap

Makes sure a cat has actually gone through

Can tell if a cat gets half way and reverses



Pros and cons



- Pros
 - We can now see if our cats are in or out

- Cons
 - I now view my cats as users

Real world lessons



If users break or can't use something I've designed or built, it's not their fault – it's mine.

People only like to spend their free time working on or being part of something they enjoy





Project Pages

http://nermal.org/projects/catalog/

CATaLOG status pages

http://catalog.nermal.net