



# CONTENTS

July LV004

Beauty is truth, truth beauty. That is all ye need to know.



**18**

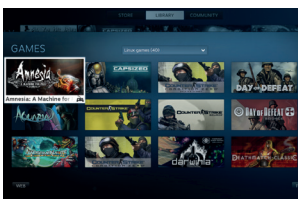
## UBUNTU

### 14.04 RESPINS

**30**

## CODE CLUB: THE NEXT GENERATION

Inspire the kids of today to achieve great things. You can be their Yoda!



**34 STEAMOS**  
How Valve is shaking up the world of games.



**38 FAQ LLVM/Clang:** the future of compiling code on Linux.

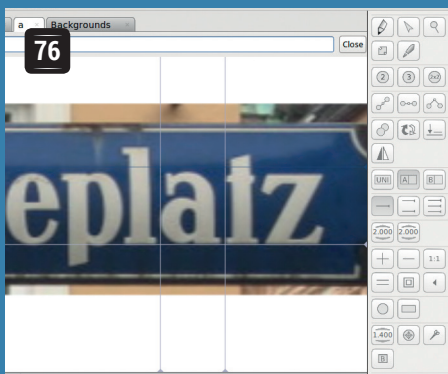


**26 KANO**  
Make computers as easy as Lego.

## REGULARS

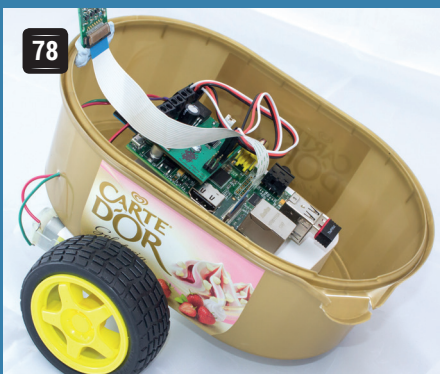
- 06 News**  
In the wake of Heartbleed, OpenSSL forks. DON'T PANIC!
- 08 Distrohopper**  
What's going to be on your Linux box in 2015.
- 10 Gaming**  
The latest AAA-grade titles are coming your way!
- 12 Speak your brains**  
Let us know what's going on in your precious grey matter.
- 16 LV on tour**  
Epistles from Lisbon, Dubrovnik and Lincolnshire.
- 40 Interview**  
We visit England's Maker Belt to speak to Pimoroni.
- 54 Group test**  
The best terminal emulators to help you Get Stuff Done.
- 62 Sysadmin**  
Turn your ever-waking eye on the logs. Intruders, fear me!
- 64 Core technologies**  
Linux Voice welcomes a new writer: Dr Chris Brown.
- 68 FOSSpicks**  
Only the hottest free software makes it into these pages.
- 102 Code ninja**  
Error correction: because only Ben Everard is perfect.
- 110 Masterclass**  
Media players of the graphical and command line flavour.
- 114 My Linux desktop**  
We peek into the control room of [gamingonlinux.com](http://gamingonlinux.com).

# TUTORIALS



## 76 Make your own typeface with BirdFont

Design software has never been more accessible. Now go and brand something!



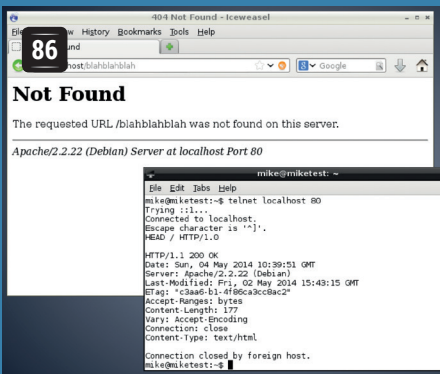
## 78 Raspberry Pi: Build a Mars Rover

Create robots programmable in Python quicker than you can say "Sarah Connor".



## 84 Raspberry Pi: Monitor woodland creatures

Keep tabs on your local badger population with a remote, home-brewed wildlife camera.



## 86 SSH, Apache & Tiger: Secure your servers

Stay one step ahead of the script kiddies who want to vandalise your web servers.



## 90 VirtualBox: Keep Windows XP after migration...

... should you wish to, that is.



## 94 John von Neumann: EDVAC & IAS

The Manhattan project bore strange fruit...

## 98 FPGAs: Build your own custom sound chip

Dip your toe into chip design

## 104 Android: Develop your first application

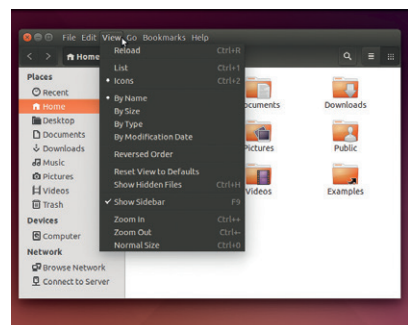
Fun and frolics on a free phone OS.

# REVIEWS



## 46 Acer C720 Chromebook

With one hand Google gives excellent hardware. With the other it takes our privacy...

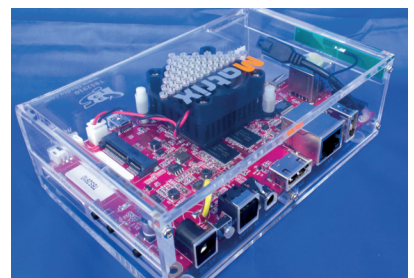


## 48 Ubuntu 14.04

The latest Long Term Support version of the world's biggest distro has quietly enthused us. Shhhh!

## 49 TBS Matrix

An ARM box that doubles as a smart TV device, running XBMC and Tvheadend. Sounds good to us!



## 50 BitScope BS10

Electronics tinkerers, rejoice: you have nothing to lose but your ignorance of current through a given component.

## 52 Books

Fresh reading matter to further enhance your neurons.

