

# How (not) to sell cattle online using Flask

Petrus Janse van Rensburg

CTPUG 30 May 2015



Why sell cattle?



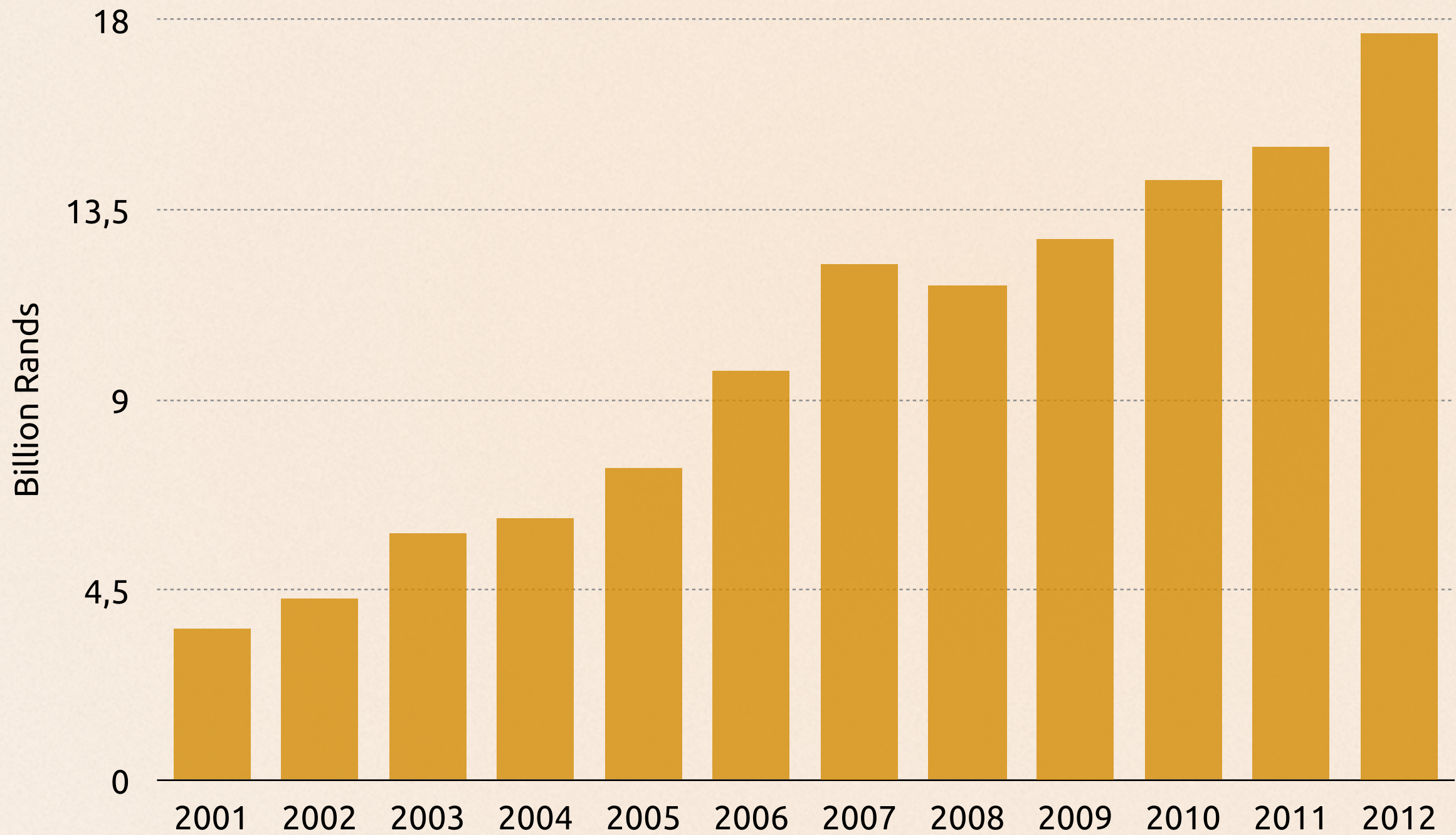
14 million cattle in RSA

R100 billion

R20 billion / year



## Value of cattle slaughtered





~ 14% growth per annum







# Commercial

limited available land + only viable at scale

VS.

inefficient practices + lack of access to market

# Communal



Farms

Feedlots

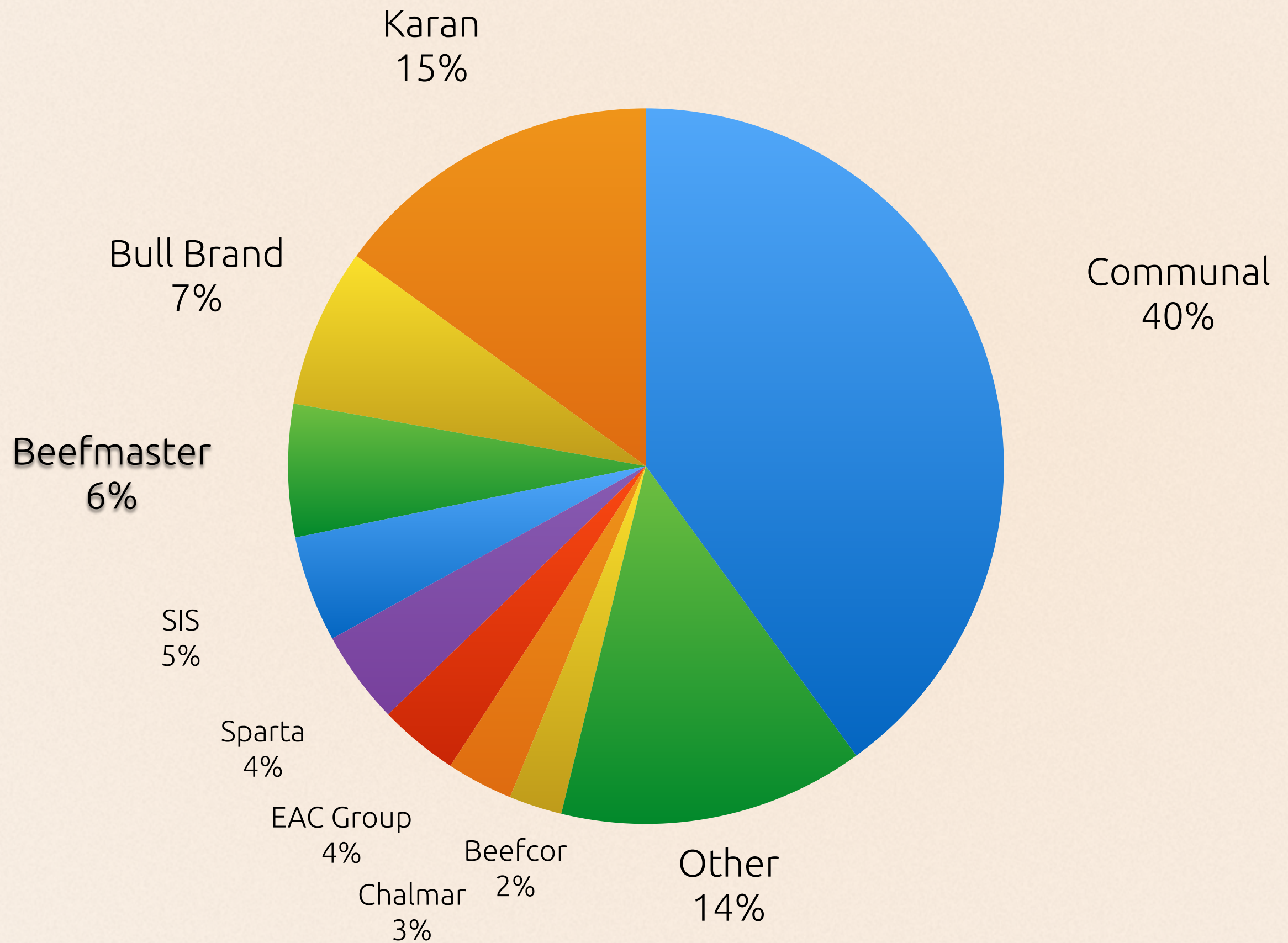
Abattoirs

Processing

Distribution

Wholesale







Cattle ownership

Land ownership

Farm management



# ukusisa

an inclusive model of farming that removes barriers to entry, allowing anyone to participate

but on professionally managed farms, that benefit from economies of scale







Eco Auctions

x

Petrus

← → ↻

www.ecoauctions.co.za/Online/Default.asp

★ 🗑 ⚙ 🔑 💬 🌐 🔄 ☰



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**HRH Gugu Mhlungu**

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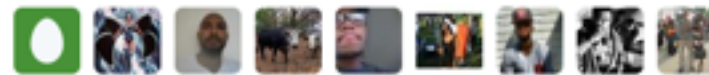
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**star**

@star\_nyembezi



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[@ukusisa](#) This is excellent. Kudos to those who initiated this idea.

📍 Cape Town



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Perfect for city slickers - timeshare farming  
"@ukusisa: There are cows up for sale! You  
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**EverybodyHatesChris** @ChrisNqoe · 23h

No farm? No problem. [#Genius](#) RT [@diamond\\_head](#): brother [@ChrisNqoe](#) this is the best idea of the year for me [ukusisa.com](#)



**ukusisa**

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Cattle farming in South Africa. Own cattle that stay on a professional farm. Grow your herd, and trade your cattle online. With ukusisa you can own cattle, without having to own a farm.

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**Tong Po** @\_T\_Xer0 · Dec 11

This is dope AF, who wants to go halfies on a cow? [ukusisa.com](http://ukusisa.com)



[View summary](#)







# Limpopo & Mooketsi Mentorship Programme





100 cattle breeders  
2000 head of cattle  
since 2006







# Overall architecture



Flasky Goodness, or why Django sucks  
Kenneth Reitz, DjangoCon 2012



# D3.js



Learning D3.js  
Scott Murray, bayd3 meetup 2013



# D3.js

YouTube <sup>ZA</sup> d3 vienno

Overview Examples Documentation Source

## Data-Driven Documents

D3.js is a JavaScript library for manipulating documents based on data. D3 helps you bring data to life using HTML, SVG and CSS. D3's emphasis on web standards gives you the full capabilities of modern browsers without tying yourself to a proprietary framework, combining powerful visualization components.

0:01 / 5:42

### D3.js tutorial - 1 - Introduction

d3Vienno

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Published on 12 Mar 2013  
Part 1 of a series of tutorials on the Javascript library D3.

#### D3.js tutorials

by d3Vienno • 1/20 videos

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by Curran Kelleher  
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D3.js tutorial - 4 - Visualizing data  
by d3Vienno  
39,782 views  
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d3Vienno YouTube tutorials



# PostgreSQL



PostgreSQL proficiency for Python people  
Christophe Pettus, PyCon 2015



# PostGIS



This is PostGIS  
Paul Ramsey, 2012



# Lean Startup v.s. Systems Engineering



Authors@Google - The Lean Startup  
Eric Ries, 2011




P.S.



# Test Driven Development

Harry Percival - TDD with Django, from scratch: a beginner's intro to testing and web development

```
1 - Python 3, Git, Firefox
2 - Django ('sudo pip3 install django==1.8')
3 - Selenium ('sudo pip3 install --upgrade selenium')
4 Don't use a virtualenv unless you 'really' know what you're
  doing. USB keys have installers for everything.
5 * Handout: http://www.obeythetestinggoat.com/static/tdd-workshop.
  zip (Also on USB key)
6 * If you're a *beginner*, makes sure you sit next to someone more
  experienced
7
8 $ python3
9 Python 3.x.x (default, Feb 28 2014, 00:52:16) [...]
10 >>> import django
11 >>> print( django.get_version() )
12 1.8
13 >>> from selenium import webdriver
14 >>> browser = webdriver.Firefox() # will pop
  window
15 >>> browser.get('http://www.google.com')
16 >>> print(browser.title) # this should say "C
workshop.asciidoc asciidoc
"workshop.asciidoc" 96L, 2168C
[1] 0:export* "workshop.asciidoc (/tm"
```



TDD with Django from scratch - a beginners intro  
Harry Percival - Pycon 2015



# Docker



3 Hours to Docker fundamentals: Jumpstart your Docker knowledge - Aater Suleman, 2014