

# An annotated life with Python and neuroscience

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## **A short personal history**

- Pre-clinical medicine, and psychology
- Clinical medicine
- Neurology
- PhD (time) in Positron Emission Tomography

## **My world in 1996-9**

- SPM - in Matlab
- A lab full of doctors
- My first teaching
- My first toolbox

## **Another world 1999-2003**

- Cambridge research unit
- A lab full of scientists
- Very little experience of imaging
- The Kanwisher bomb via Russell Epstein
- Marsbar (version control, Sourceforge)

## **Another world 2003-2005**

- Berkeley psychology department
- University full of scientists
- FMRI still young
- Neuroimaging back then; SPM, AFNI, FSL
- Meeting Jarrod
- Starting with Python

## The world starts to change 2004-5

- The grant idea
- The grant meetings
- Fernando Perez, John Hunter, Travis Oliphant, Jonathan Taylor
- Python back then

## Adrift back home

- Cambridge research unit again
- A world of Matlab and “research support”.
- Nipy starts
- Dipy starts
- Scipy continues
- Fernando comes to Berkeley

## Back in the new world 2008-2017

- Numpy, scipy, Matplotlib
- Nibabel
- Nipy falls to pieces
- The IPython notebook, and Jupyter
- The Python wave, Pandas, Statmodels.
- The data science wave.

## Looking back

- [Who's building?](#)
- [How are things built?](#)

## Where we're headed

- The world of the programmers toolbox
- Code as basis for teaching
- Your name here

## A summary

- “Lento pero asplastante”
- Absurd ambition
- Find your team
- Anyone can play

## What's your goal?

Materials at <https://github.com/matthew-brett/life-in-python>.

## References