









## twitter

Linked in









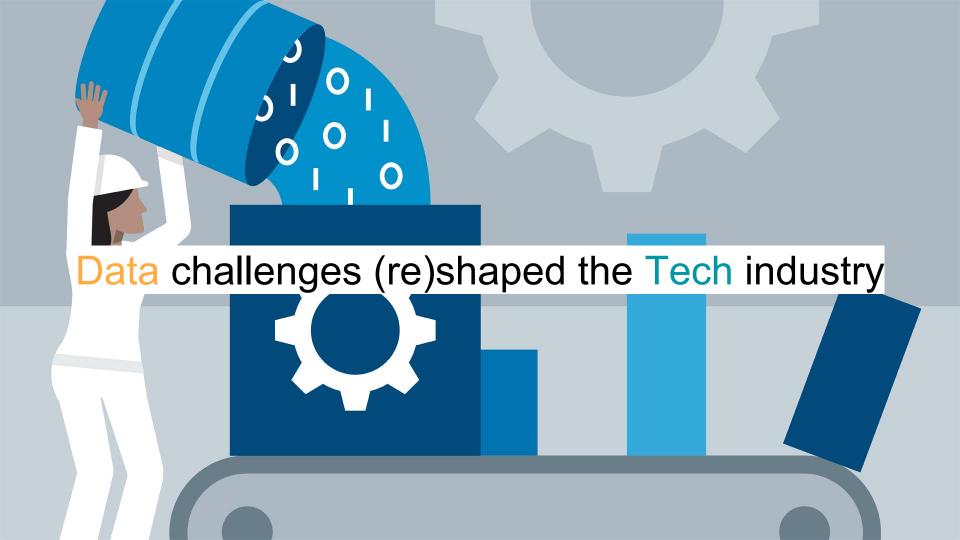




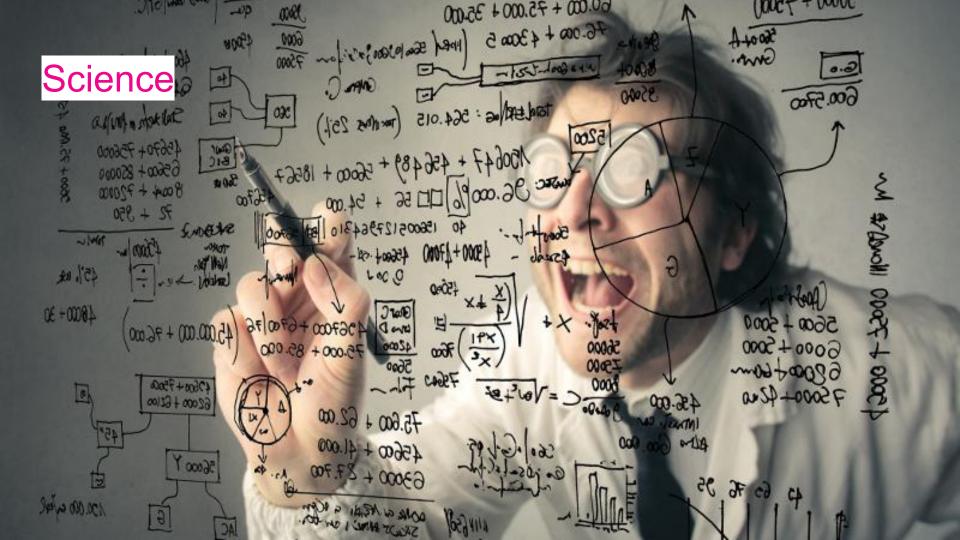
**European Space Agency** 





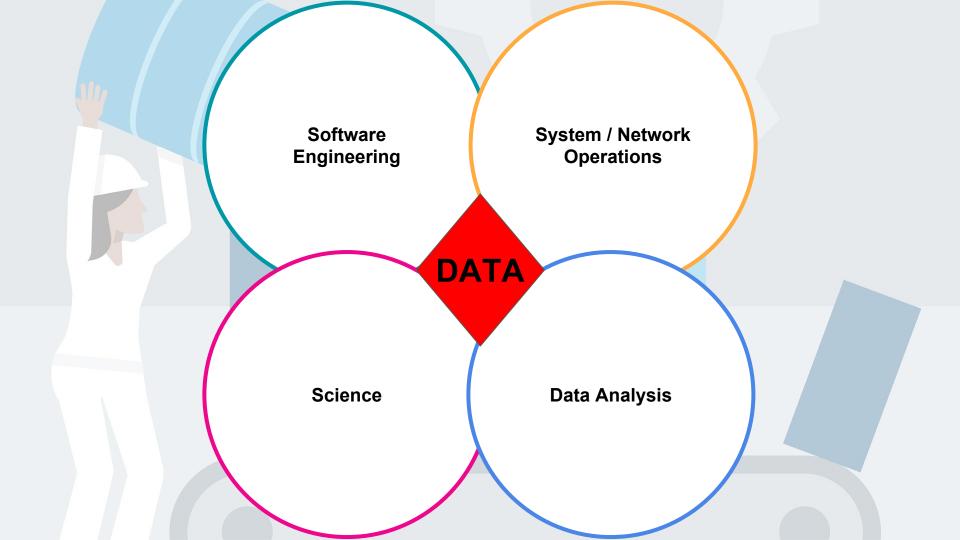




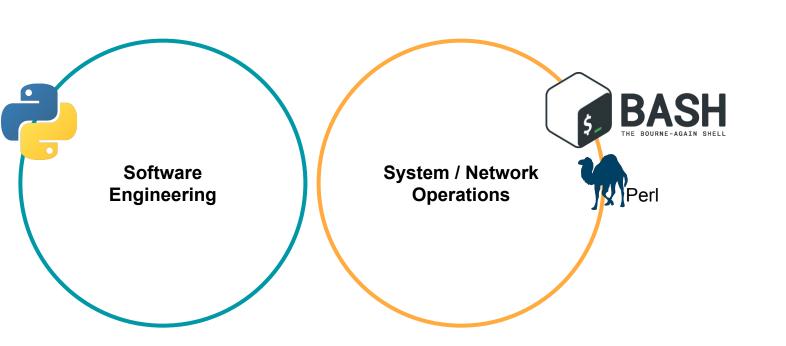




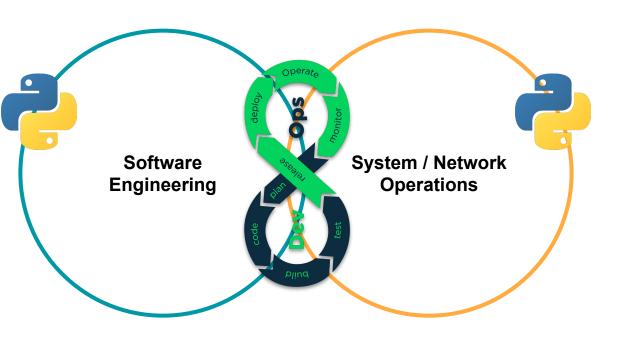




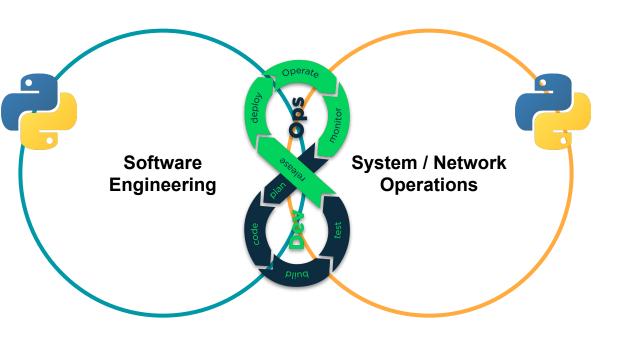




### 2009: DevOps culture and SOA design emerge



### DevOps fosters Python's adoption by Ops



**2009** 

DevOps culture SOA architectures

2010

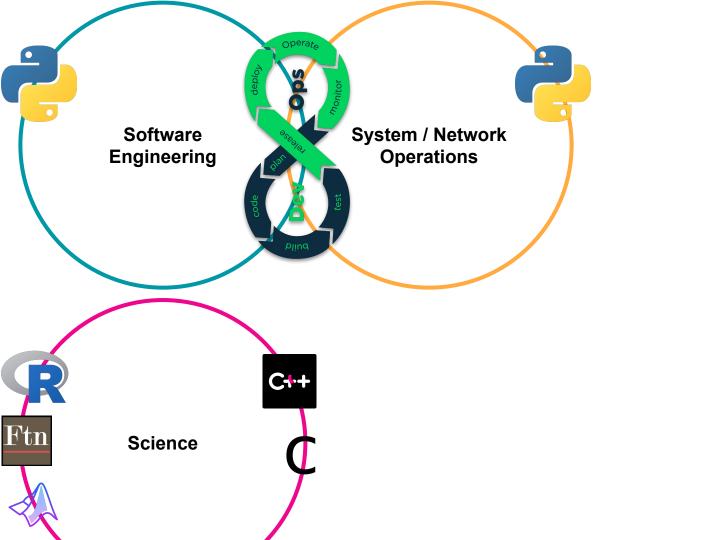
WSGI 1.0.1 (PEP 3333)

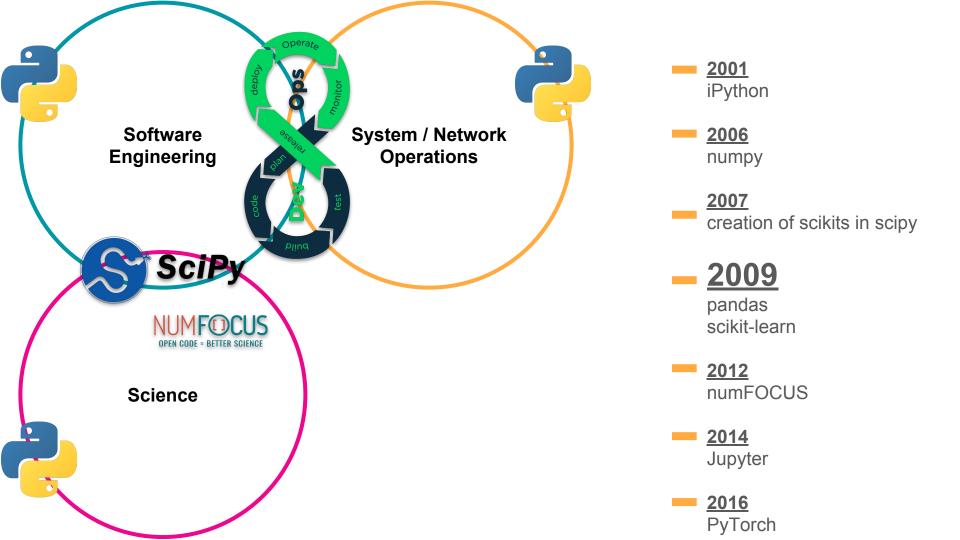
Flask uWSGI Gunicorn

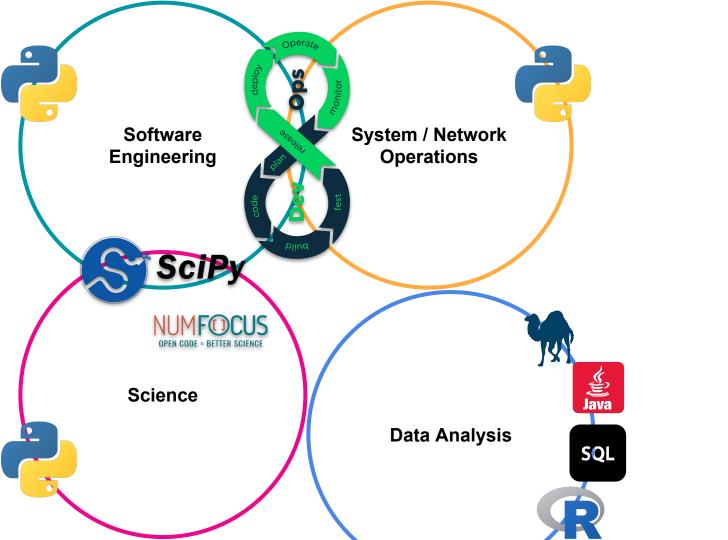
Fabric

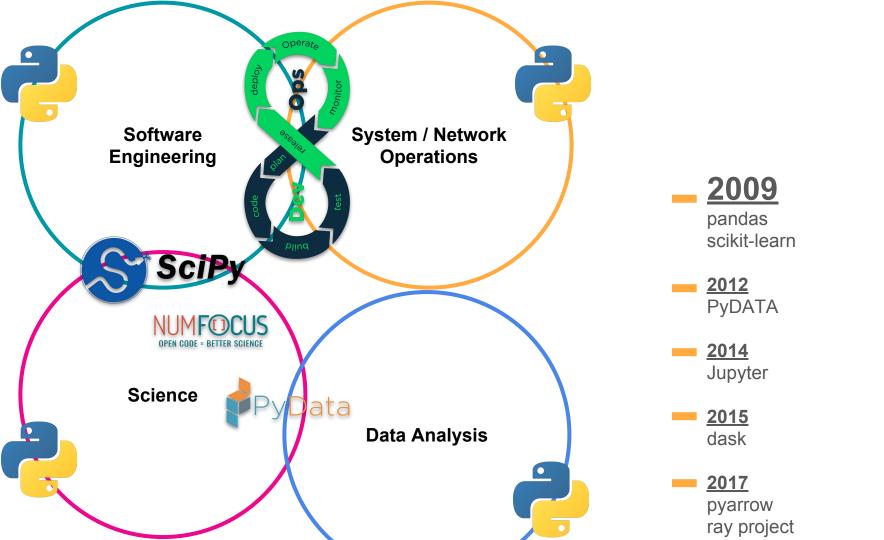
<u>2011-2012</u>

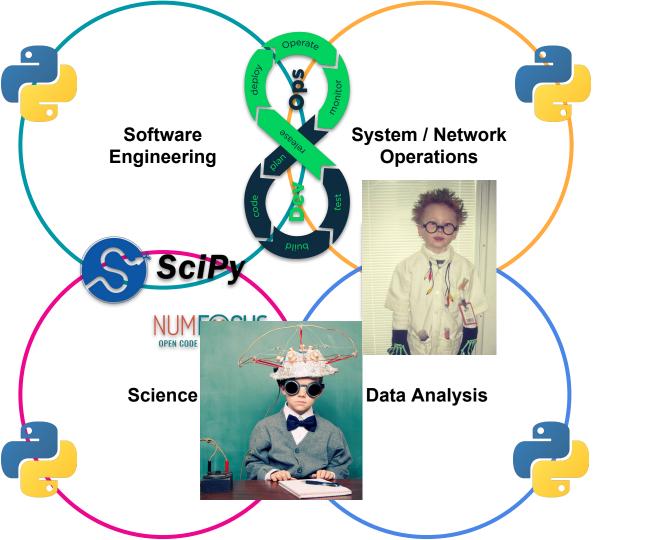
Ansible SaltStack







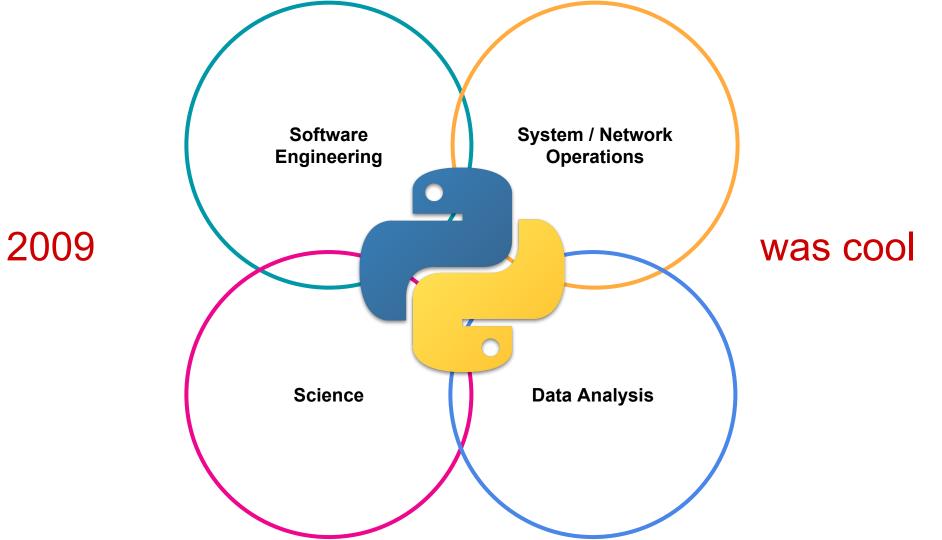


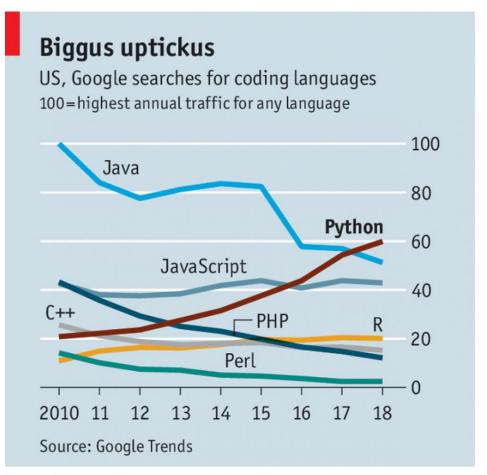


2008 Cassandra

Apache Hadoop
Apache Kafka

<u>2015</u>DataOps cultureEvent-Driven Architecture





Source: Economist.com



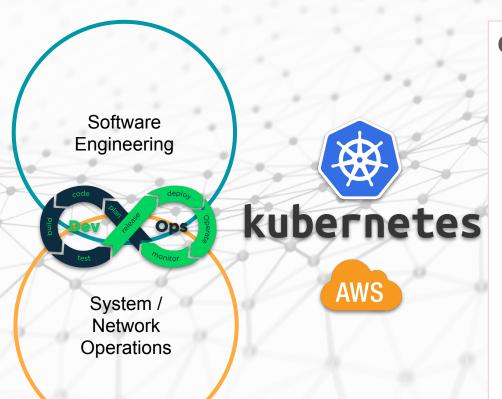
https://www.lemonde.fr/pixels/article/2018/07/25/je-n-imaginais-pas-que-python-connaitrait-un-tel-succes\_5335917\_4408996.html







### The way we build & deploy apps/platforms changes



#### **Challenges**

- Packaging
- Standalone build and runtime

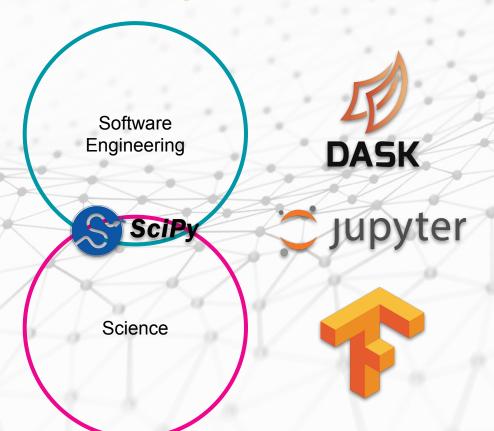
Performance



Distributed applications



### Operating Data Science at scale is still not solved



#### **Challenges**

- Production deployment
- Runtime integration



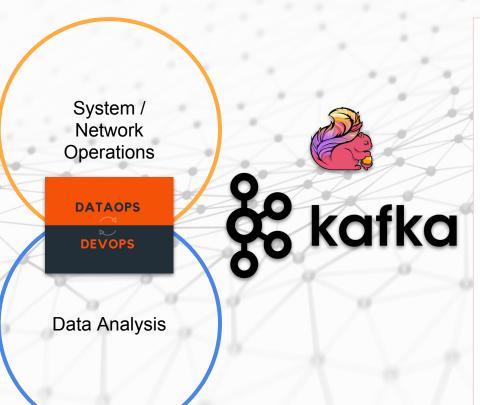
- Performance
- Scale



Graph computation



### Data paradigm is shifting to Event-Driven / Streams



#### **Challenges**

- Runtime integration
- Production deployment



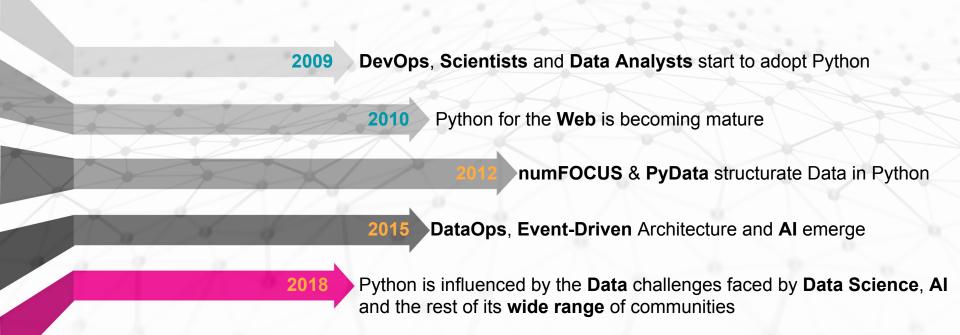
- Performance
- Scale



Distributed databases



### Take away





# Thanks

The rise of Python in the Data communities saijiunumoo

The rise of Data in the Python



