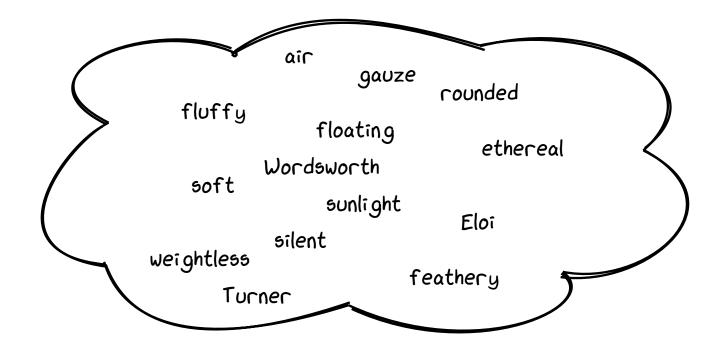
THE BOTTOMLESS DATACENTRE



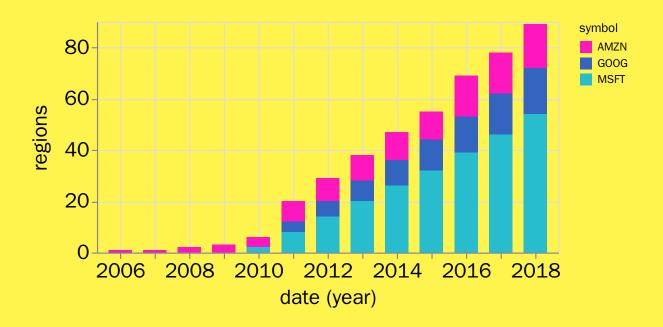
NEWSPEAK



GROUNDED

```
barbed wire
                                 cooling fans
 rectangular
                           industrial
            warehouse
                                     Morlocks
                         security
       rows of racks
                             artificial light
unsightly
             physical infrastructure
      boX
                             cables
           metal
                                  blinkenlights
                electric hum
```

COMPUTE-1 AND UP



Region data based on the AWS, GCP and Azure blogs. Some missing data points interpolated.

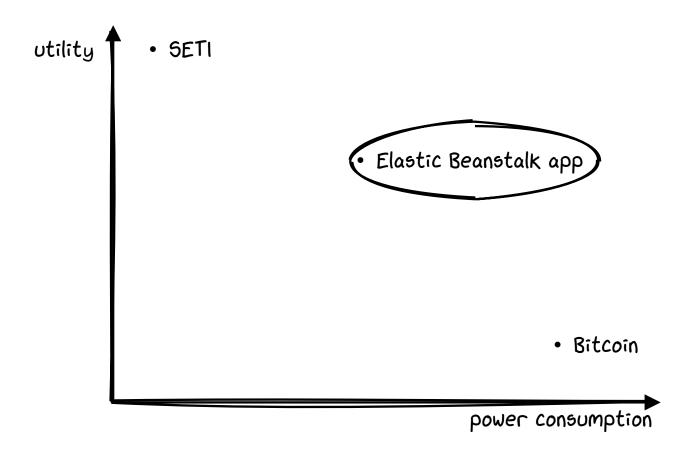
INCENTIVES

$$PUE = \frac{Watts in}{IT watts}$$

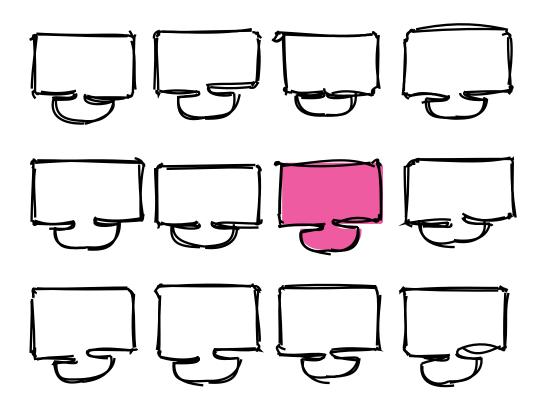


Power usage effectiveness data by Google Data Centers

INFINITE BEANSTALK



1,000,000 SCREENSHOTS



PHOENIX CI

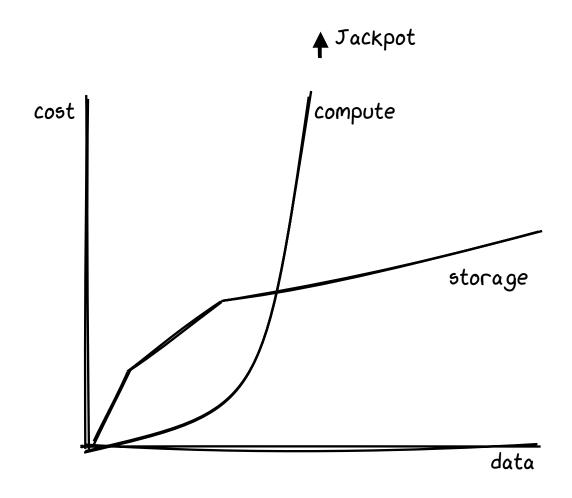


RECIPE

```
FROM golang:1.11.1 as builder
WORKDIR /go/src/github.com/gerald1248/k8s-network-policy-viewer/
COPY * ./
RUN go mod download && go get && go vet && go test -v -cover && \
    go build -o k8s-network-policy-viewer .

FROM ubuntu:18.10
WORKDIR /app/
EXPOSE 8080
COPY --from=builder .../k8s-network-policy-viewer /usr/bin/
USER 1000
CMD ["k8s-network-policy-viewer", "-s=true"]
```

TOTAL COST OF HOARDING



THE VIEW FROM LE MANS

Program to where the performance puck is going to be, not where it has been

- DHH

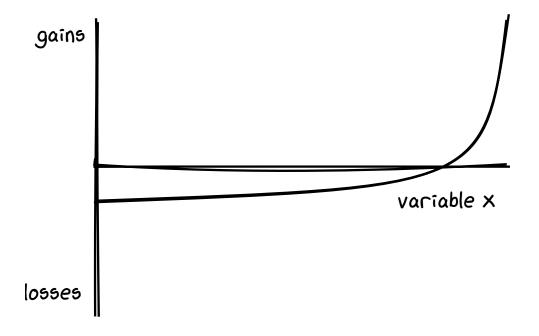
Source: D.H. Hansson. 2016. Signal v. Noise.

THE MISSING THREE PER CENT

We should forget about small efficiencies, say about 97% of the time: premature optimization is the root of all evil — Donald Knuth

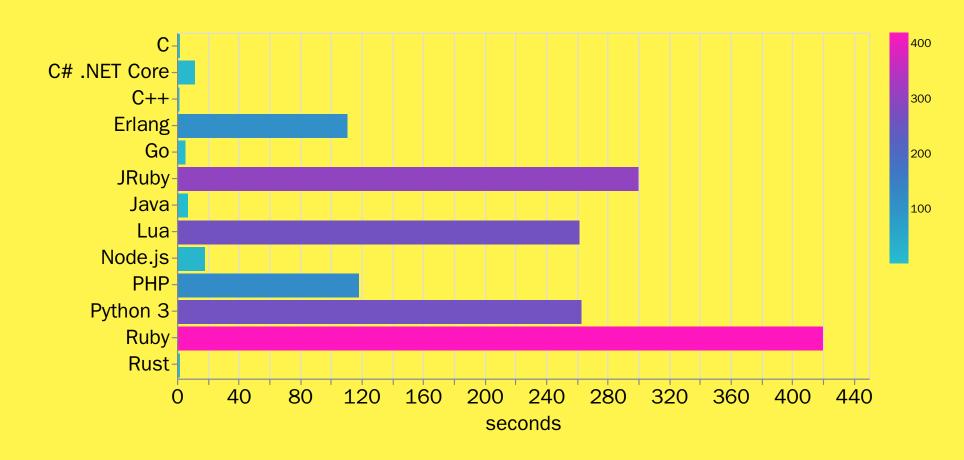
Source: D. Knuth. 1974. "Turing Award Lecture." Comm. ACM 17 (1974), p. 671.

ASYMMETRY



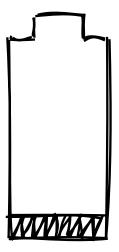
Adapted from N.N. Taleb. 2012. Antifragile. NY: Random House, p. 273.

MANDELBROT

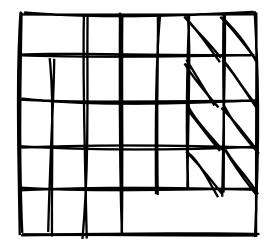


Source: benchmarksgame-team.pages.debian.net

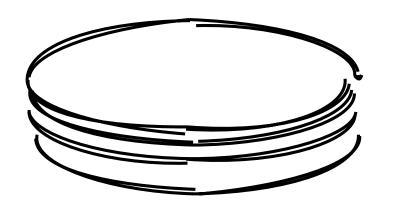
MOBILE



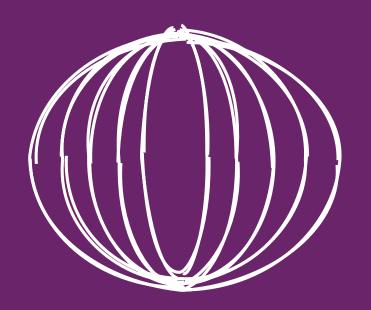
EMBEDDED



PAY FOR WHAT YOU USE



MAXIMISE THE WORK NOT DONE



THANK YOU

Slides built with Markdeck

gerald1248/bottomless-datacentre-slides

303spirit

ThoughtWorks®