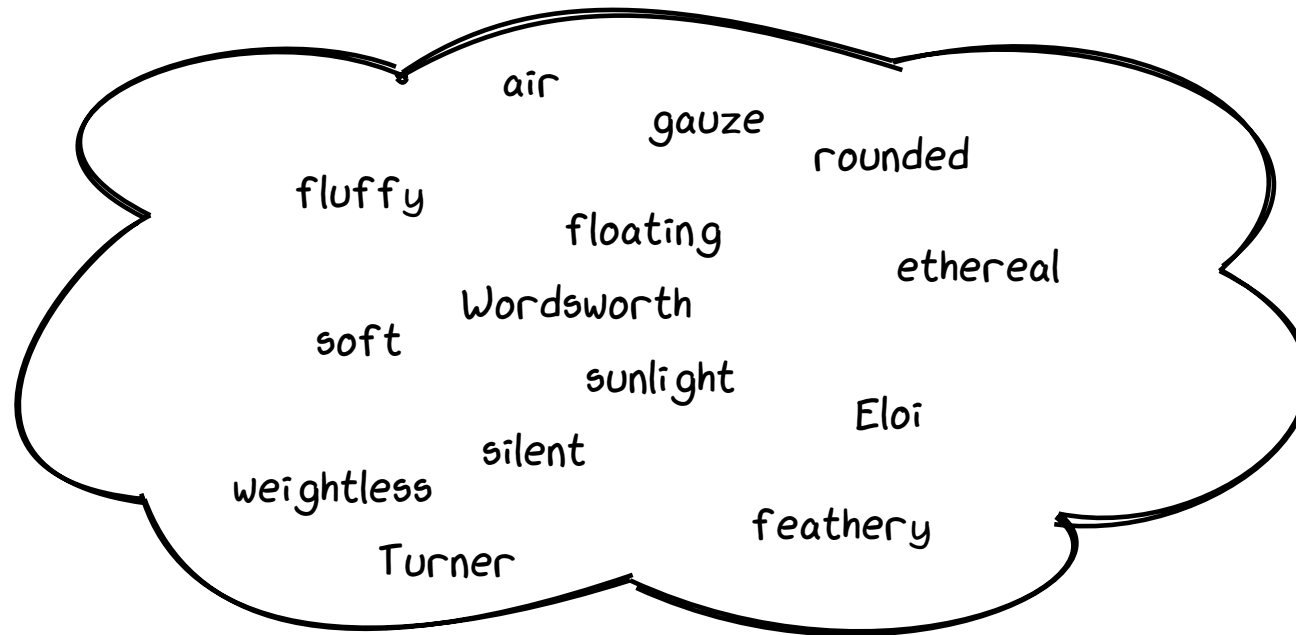


# THE BOTTOMLESS DATACENTRE

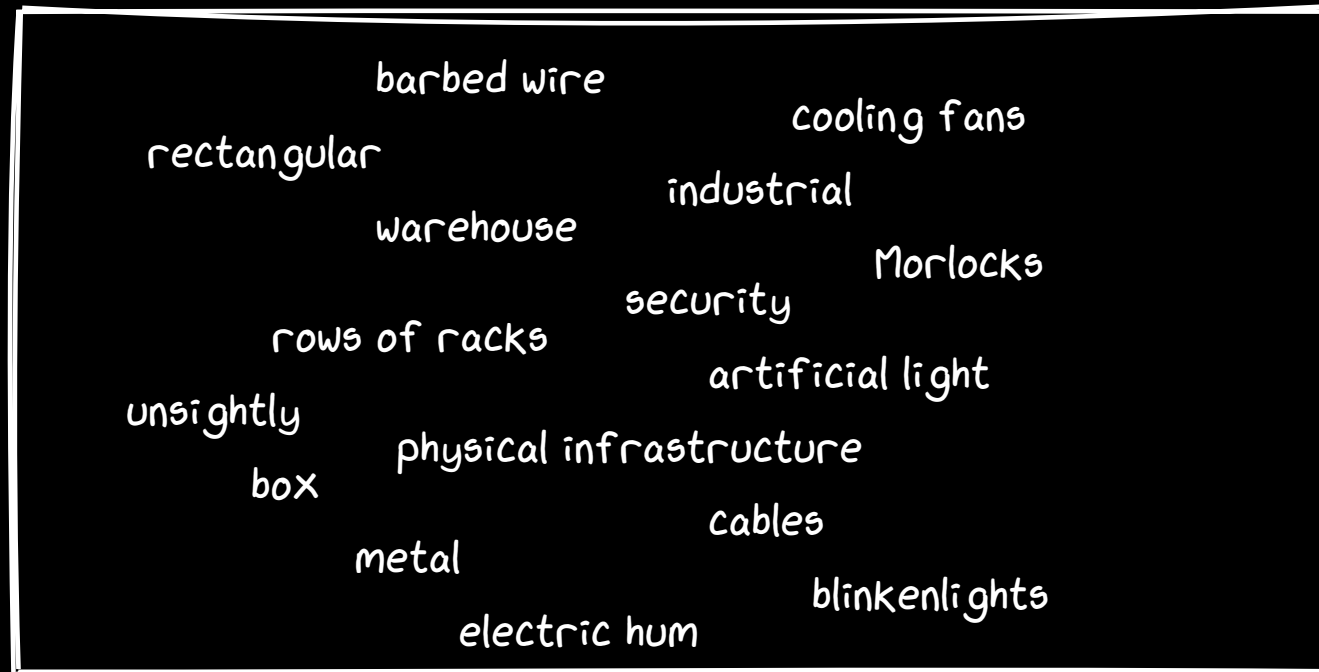


sustainable cloud computing

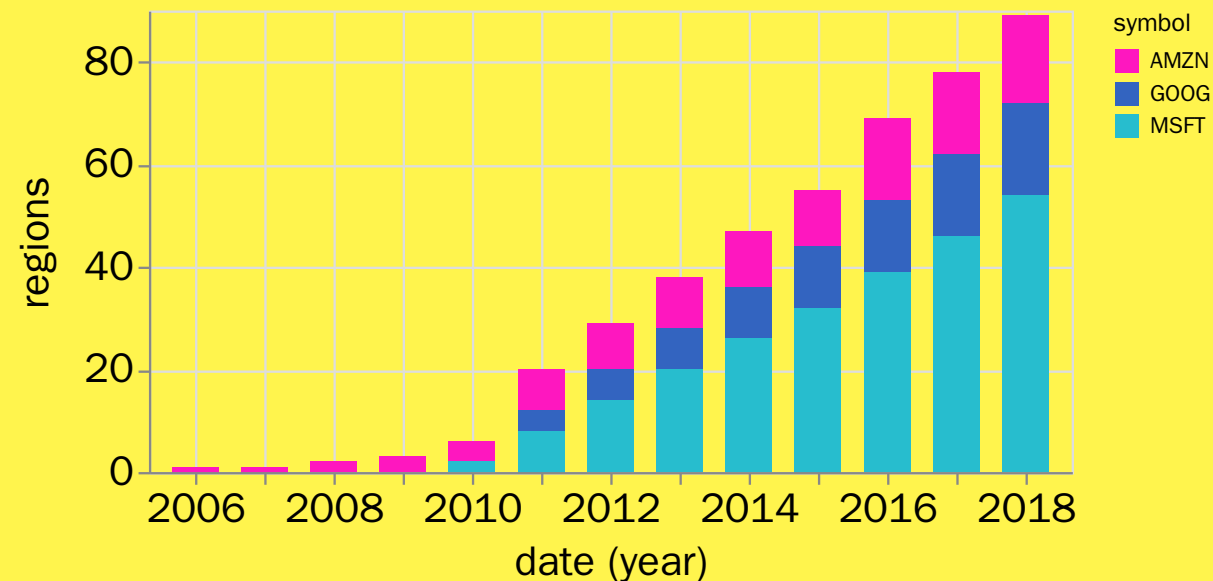
# NEWSPEAK



# GROUNDING



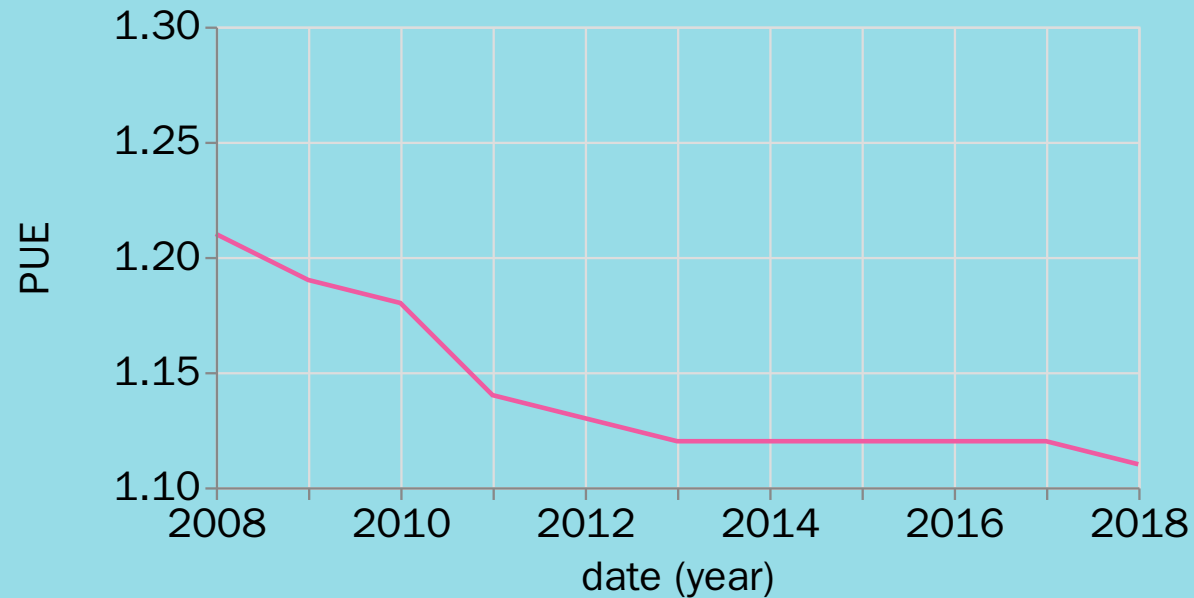
# COMPUTE-1 AND UP



Region data based on the [AWS](#), [GCP](#) and [Azure](#) blogs.  
Some missing data points interpolated.

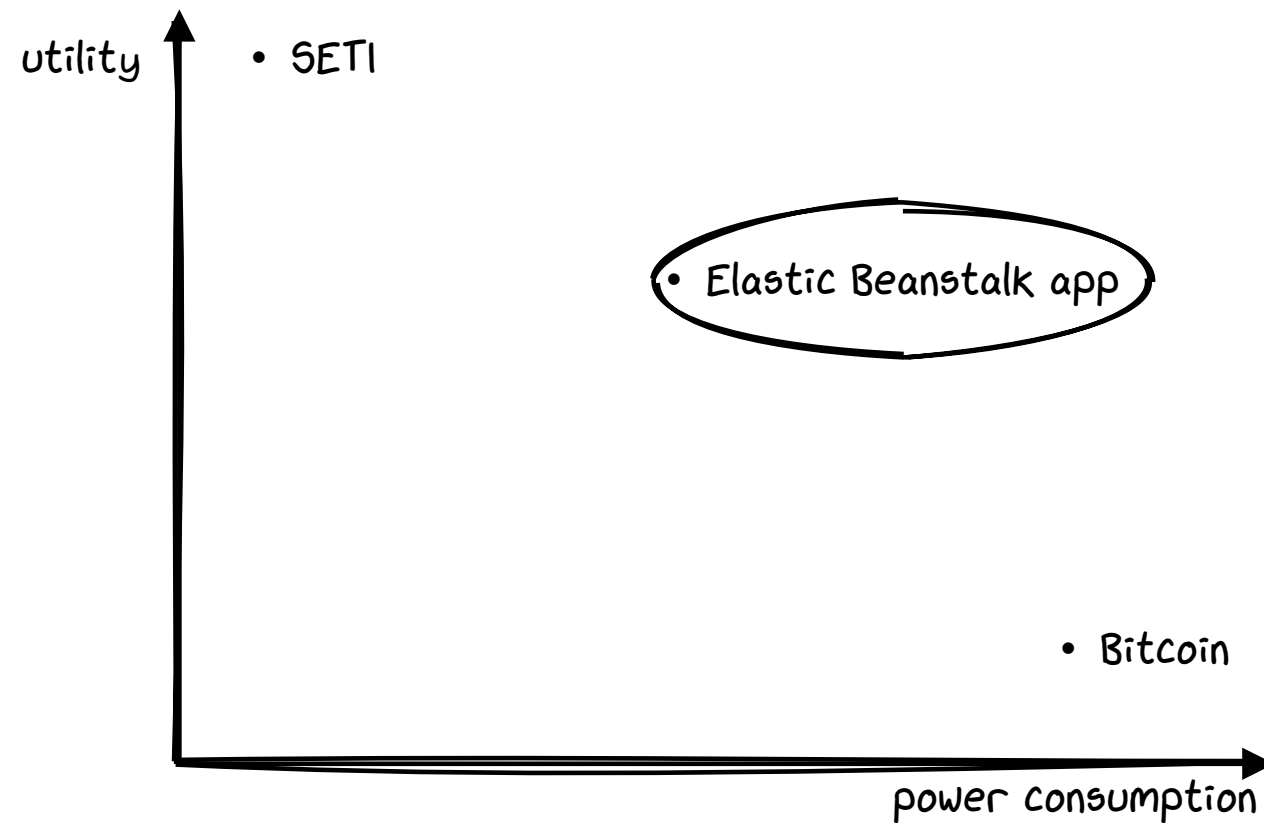
# INCENTIVES

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

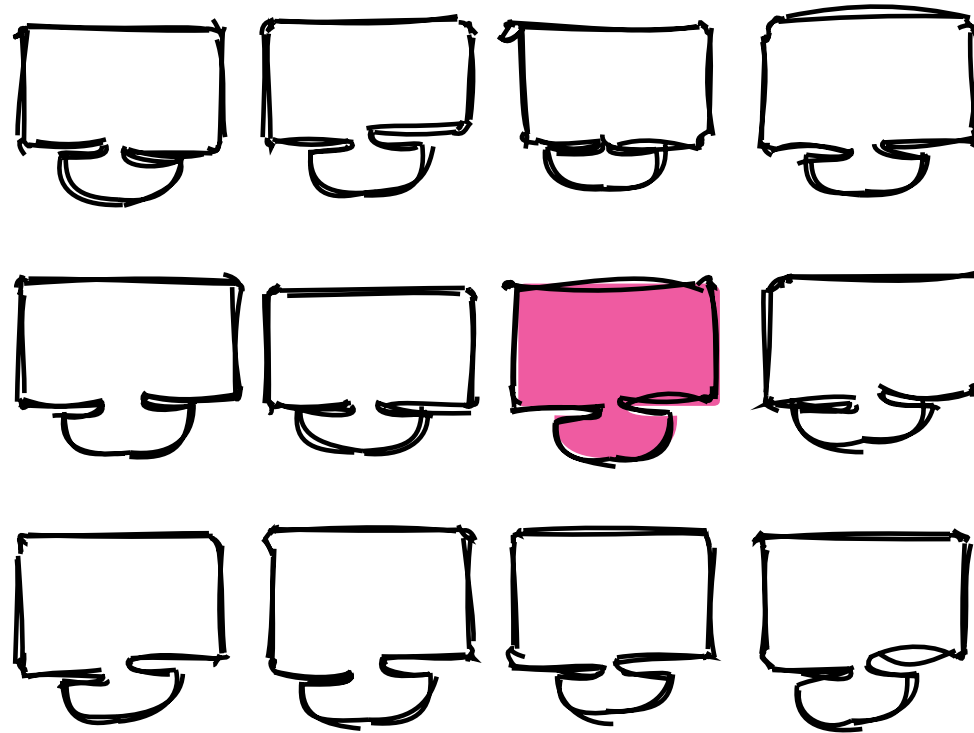


Power usage effectiveness data by [Google Data Centers](#)

# INFINITE BEANSTALK

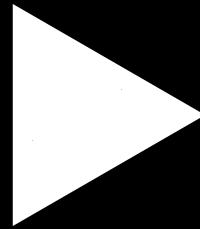


# 1,000,000 SCREENSHOTS

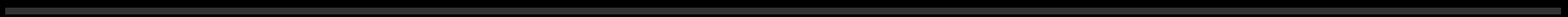


# PHOENIX CI

bash-4.4\$



00:00



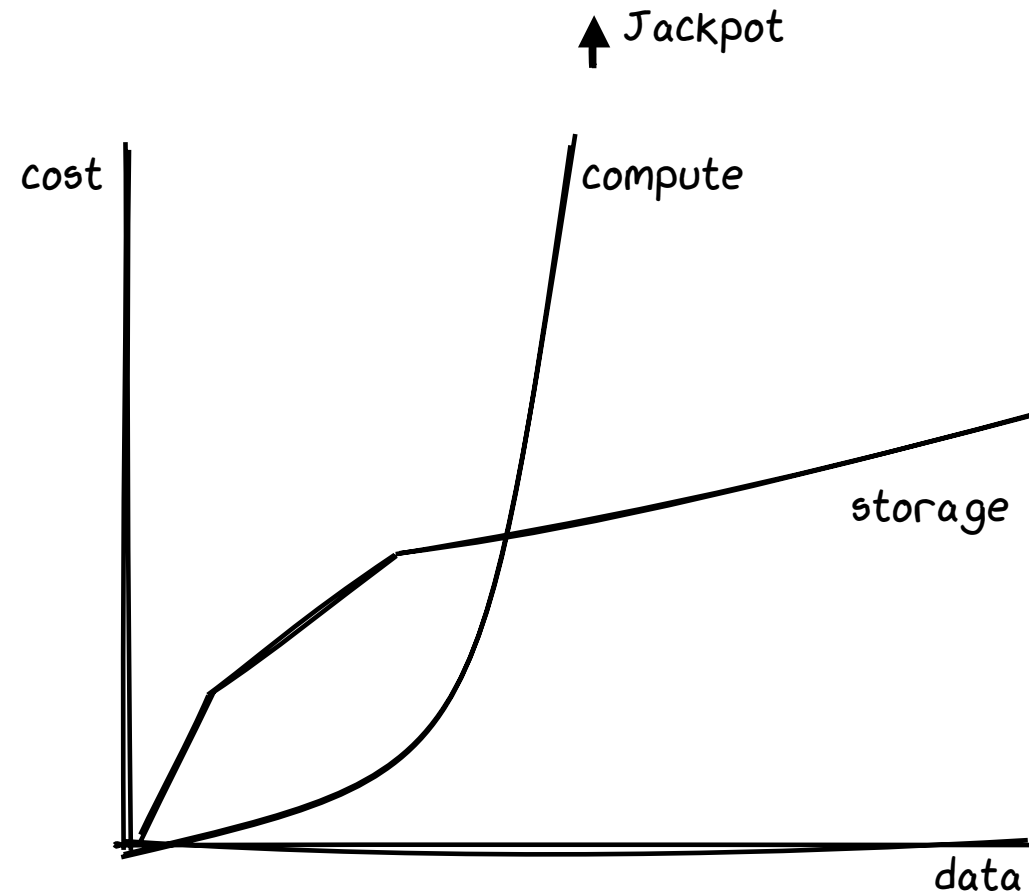


# RECIPE

```
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

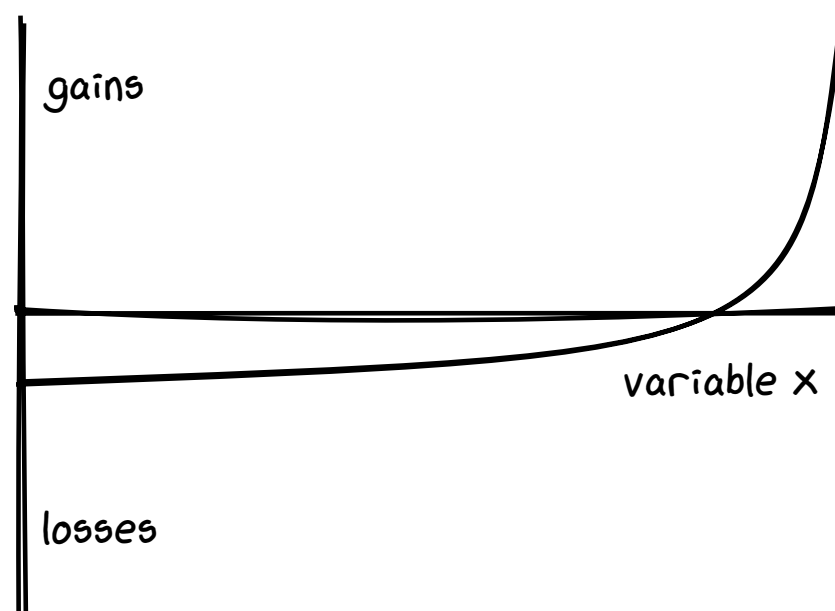
– DHH

# 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

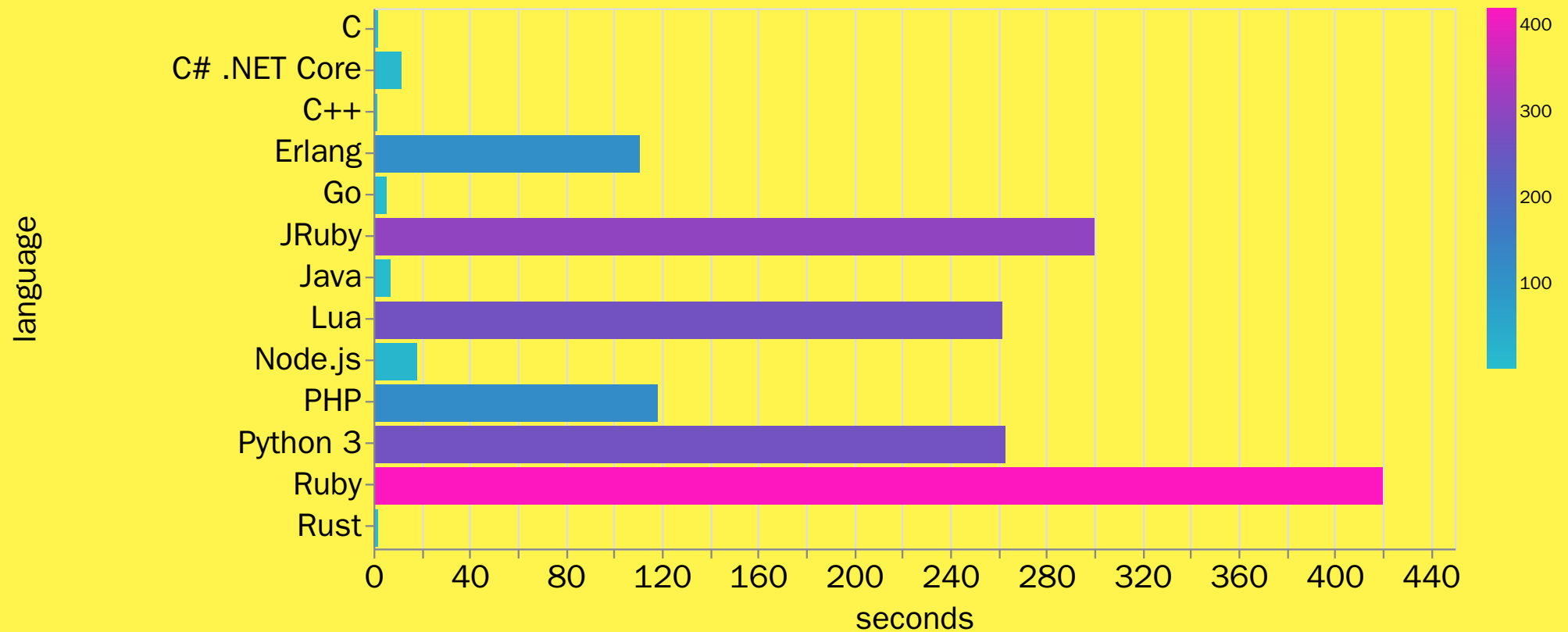
– Donald Knuth (?)

# CONVEX DISTRIBUTION



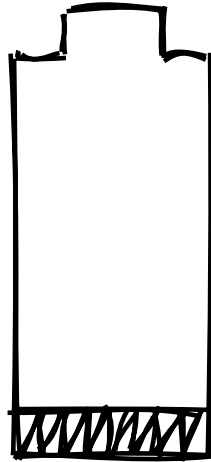
Adapted from N.N. Taleb. 2012. *Antifragile*. NY: Random House, p. 273.

# MANDELBROT

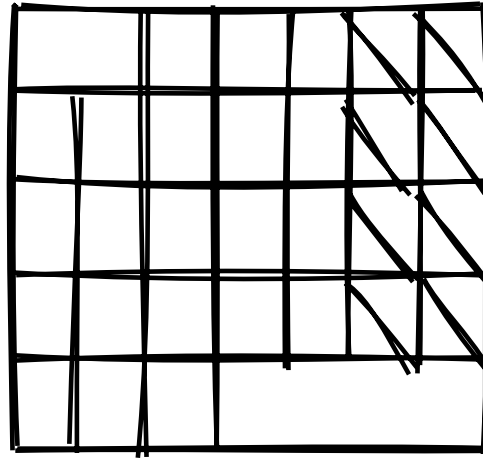


Source: [benchmarksgame](#)

# MOBILE

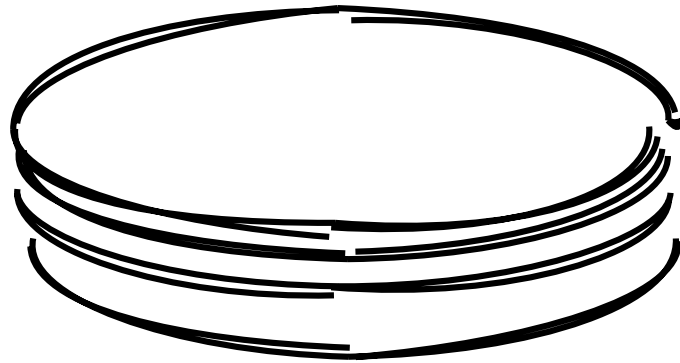


# EMBEDDED





# PAY FOR WHAT YOU USE



# MAXIMISE THE WORK NOT DONE



# THANK YOU

Slides built with [Markdeck](#)

Based on [Reveal.js](#), [a2s](#), [a2sketch](#), [Vega-Lite](#), [Asciiinema](#) among others.

The fonts are [OpenSans](#) and [xkcd-script](#).

Clone from [github.com/gerald1248/bottomless-datacentre-slides](https://github.com/gerald1248/bottomless-datacentre-slides).

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