How Similar Are Two Hospitals

Using Probability And Geometry For Comparison
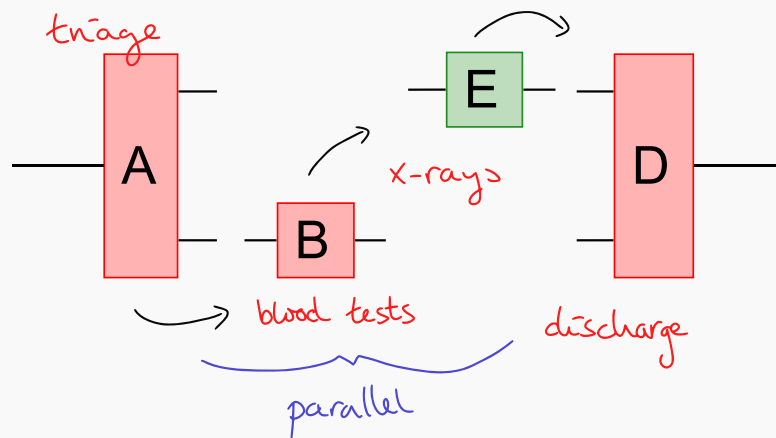
What shall we talk about?

Main idea: breaking up process models is powerful

triage

x-rays

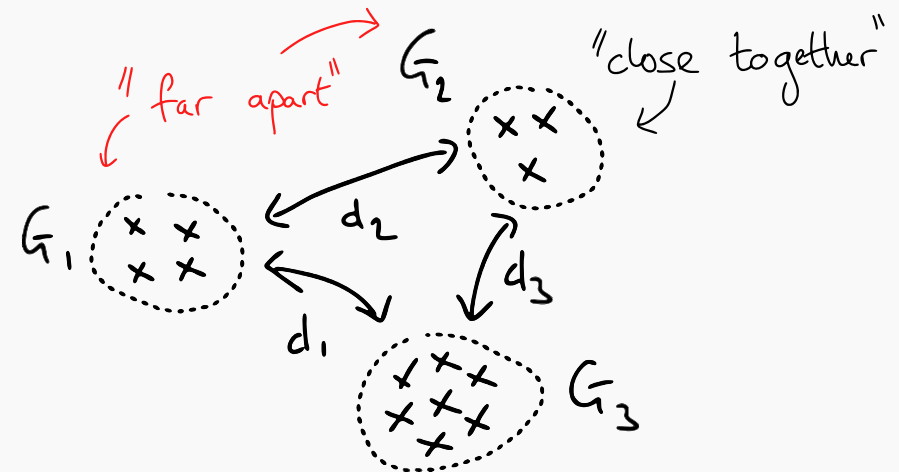*blood tests*

discharge

parallel

$$\text{prob (bloods and x-ray | triage)}$$

Sequences give probabilities (predictions)

Probabilities give geometry (comparisons)

"far apart"

"close together"

G_1 G_2 G_3

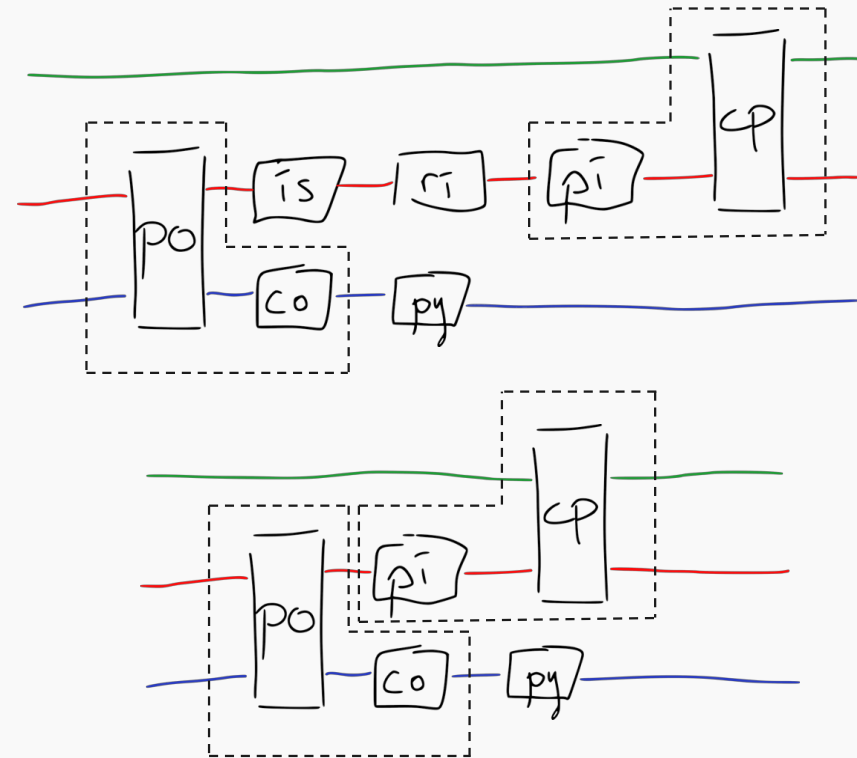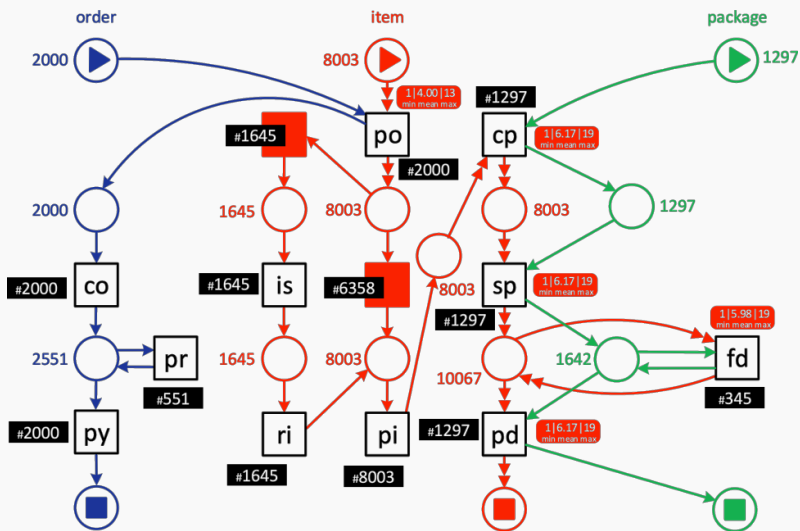d_1 d_2 d_3

Why are you interested?

Probability and geometry let us compare hospitals

Unravelling processes helps bring out the model's details

Non-experts can reason graphically with models

Underpinned with rigorous mathematics

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Bonus slide

$\langle po, co, pi, py, cp \rangle$
$\langle po, pi, cp, co, py \rangle$

Thank you

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