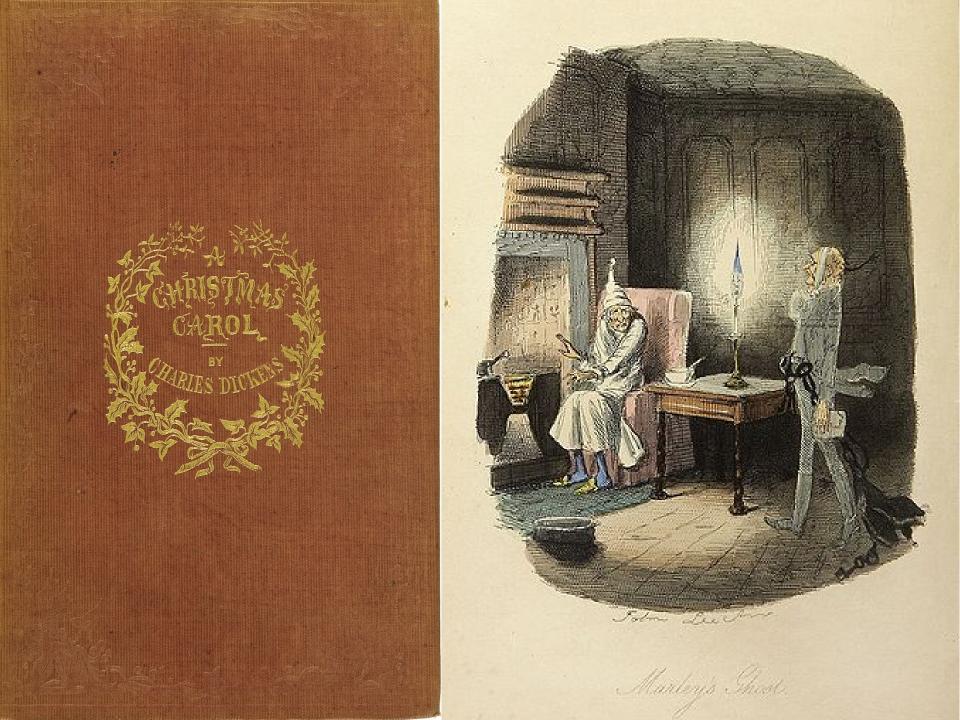
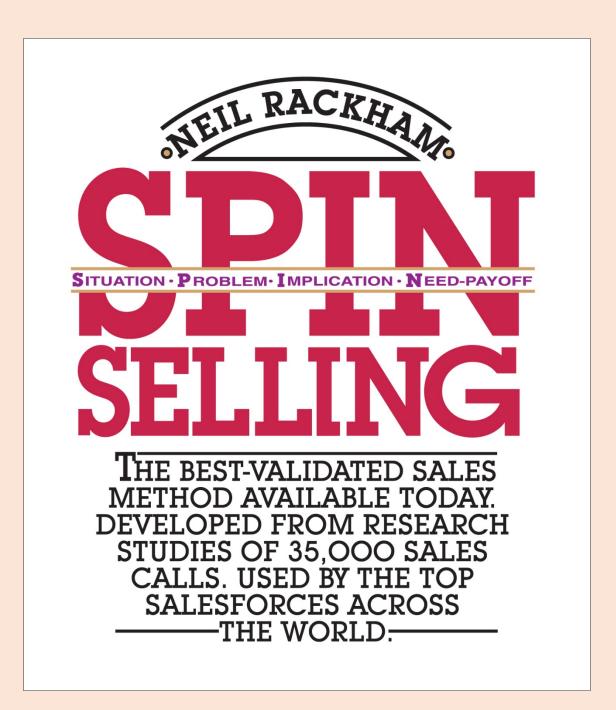
Unaccustomed as I am to public speaking

John Hughes Chalmers and Quviq

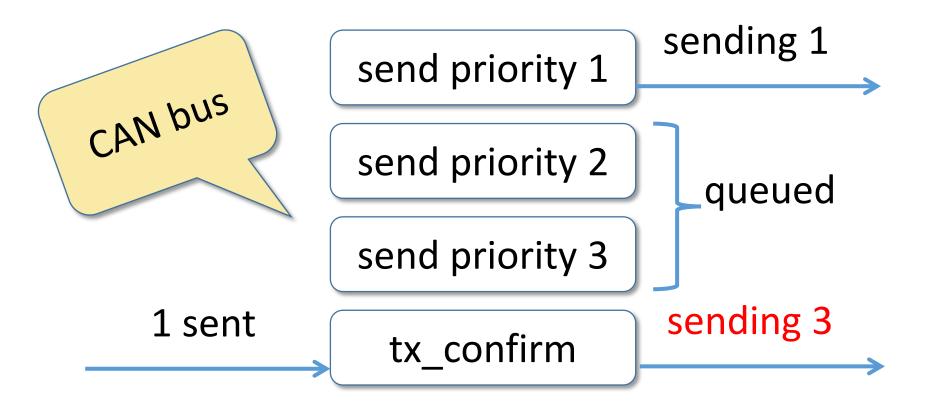


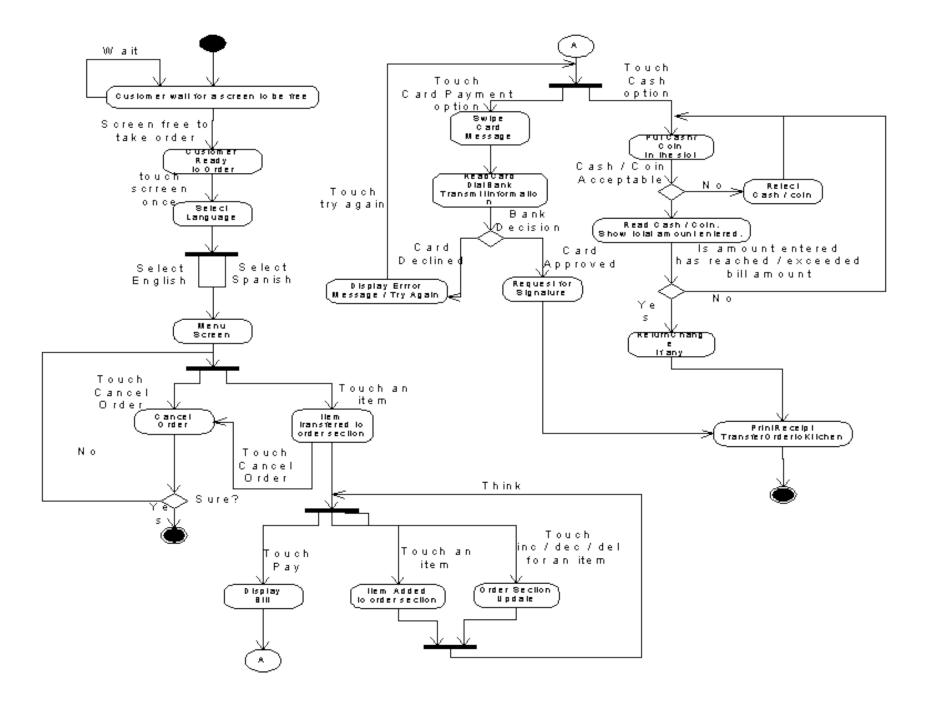
Outline of the talk

- Introduction
- The problem
- My solution
- Results
- Discussion and related work
- Conclusion



A Bug in a vendor's CAN stack





How to give a research talk

What are you trying to achieve?

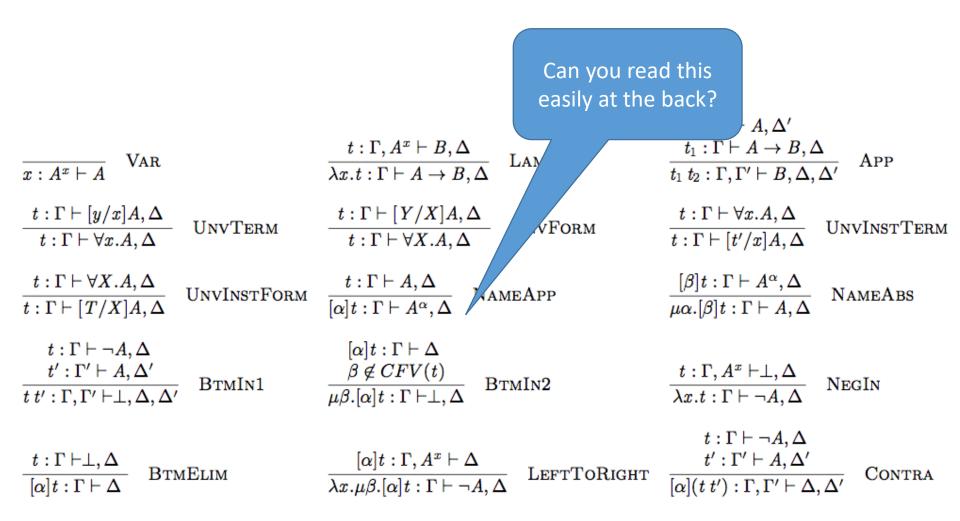
- NOT explain your paper in depth
- SELL your paper to the audience
- Who is your audience?
 - Explain too much, rather than too little
- If they remember one thing from the talk, what should it be?
- Explain one interesting thing well, not many superficially. Cut mercilessly!

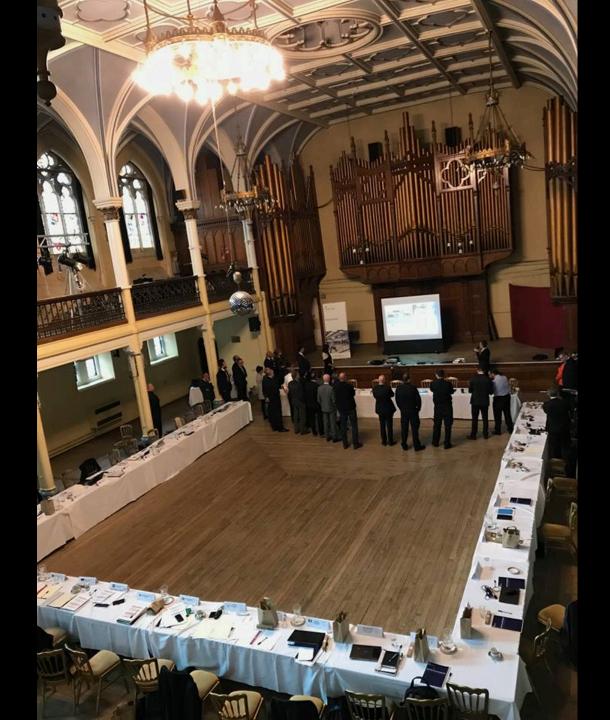
What is your problem?

- Show an example!
- And why should I care?
- SPIN selling—implication
 - CAN stack bug... stereo and brakes
- Proving 10x cost of testing... Micra and BMW 5 series

Demos

- Nothing is more concrete!
- Fonts need to be enlarged
- Make sure your demo fits in 1024x768
- Practice; timing is unpredictable





\$60 billion

\$240 billion

50%

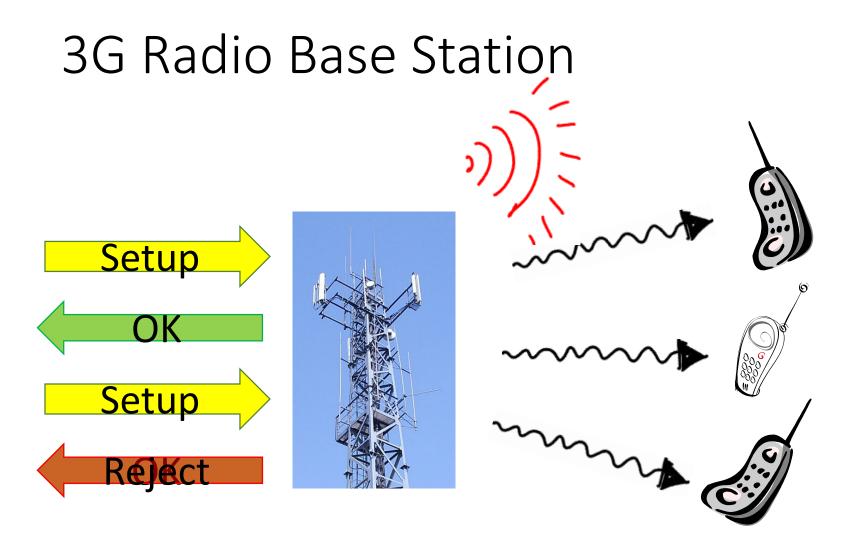
Money Cost of spent on ≈ remaining testing errors

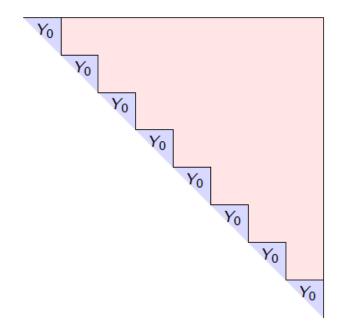
The cost of testing vs faults

- Software errors cost the US economy around \$60 billion per year [Congressional report, 2002]
- The turnover of the US software industry is around \$240 billion per year
- Testing makes up around 50% of the cost of a typical software project
- Therefore the amount spent on testing is approximately the same as the cost of tolerating the remaining errors
- Increasing the cost of verification by more than a factor of two cannot pay off

The cost of testing vs faults

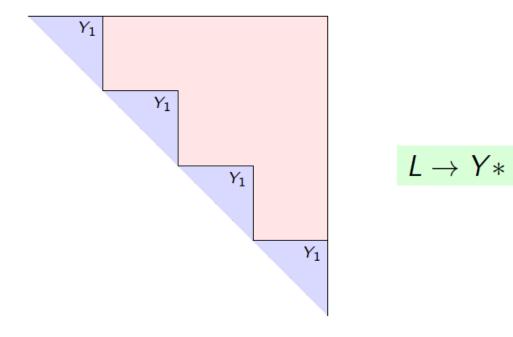
- Software errors cost the US economy around \$60 billion per year [Congressional report, 2002]
- The turnover of the US software industry is around \$240 billion per year
- Testing makes up around 50% of the cost of a typical software project
- Therefore the amount spent on testing is approximately the same as the cost of tolerating the remaining errors
- Increasing the cost of verification by more than a factor of two cannot pay off



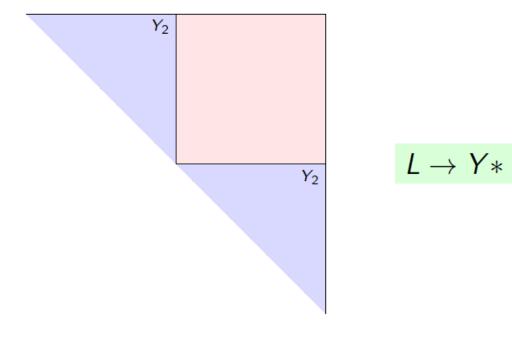


 $L \rightarrow Y *$

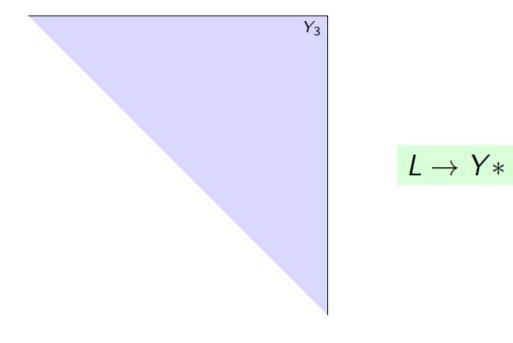
▲□▶ ▲□▶ ▲三▶ ▲三▶ ▲□ ● ◇◇◇



▲□▶ ▲□▶ ▲ 三▶ ▲ 三▶ ● 三 ● ● ●

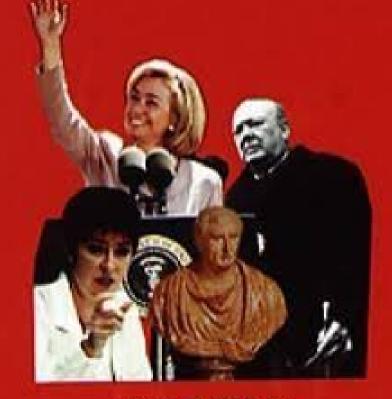


◆□ > ◆□ > ◆三 > ◆三 > 三 のへで



▲□▶ ▲□▶ ▲三▶ ▲三▶ 三 少へで

Göran Hägg PRAKTISK RETORIK



TALARSKOLA med klassika och moderna ecompet

Waw

Presentation exercise

- Explain key idea
 - Including past: why was this a big step forward
 - Including future: *how* has idea been used since
- 15 minutes! That's short!
- In reality: small group in a small room
- Imagine: for 20—30 people
- Book a slot!