Claus B. Madsen, CVMT/AAU

SOMETHING ABOUT BOXES...

SPRING 1989

- First semester of the "Civilingeniør" study in "Medico-teknik og Billedanalyse"
- Plan: one semester "billedanalyse", then specialize for a year in "medico-teknik", then work for a company "saving the world" and making a lot of money
- Erik proposes: work on robotvision project and get chance to go to US in the fall...

Put-in-box robot





Erik as supervisor

Meet EG, Wednesday 11 o'clock



Erik with professor traits

- Glasses in holder around the neck
- Pen that could write in three colors (pencil, ballpoint blue, ballpoint red)
- "Slippers"
- Leather west
- Arrived late, left very late

Erik as "family father" for the lab

- Relaxed attitude
- "Open door" policy ... with moderation ©
- Keen on festivities

Summer 1989



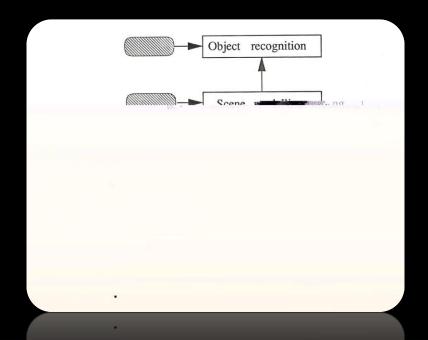
Were we a little too relaxed?



Mobile robot, Knoxville, Tennessee



Modular vision systems 1990 - 1994



Key words characterizing this period:

Vision philosophy (active vision, purposive vision,...)

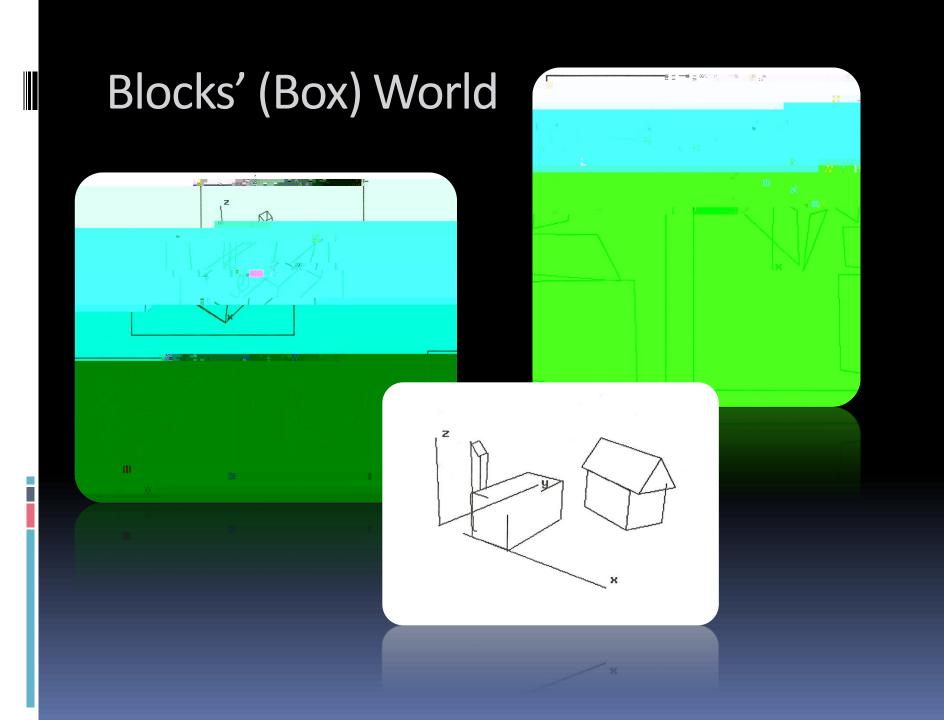
Systems

Sequences

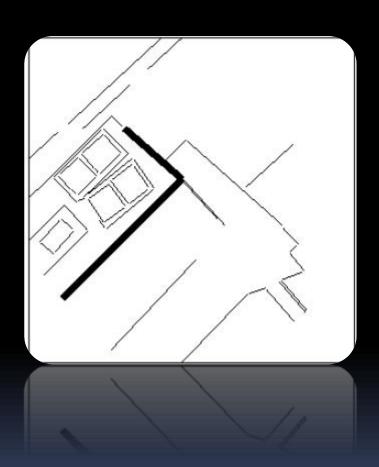
High level reasoning

Region of interest

Qualitative



I got Ph.D. in measuring angles ©



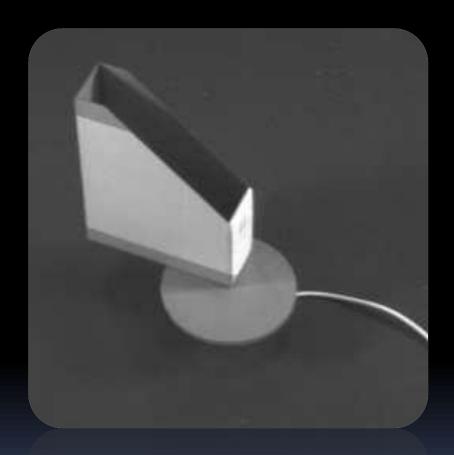
My thesis advisor was Henrik Iskov Christensen, and I was his first Ph.D. "child". Henrik was Erik's first Ph.D. child.

Henrik is now robotics chair at Georgi Institure of Technology

Autumn 1994



Spring 1996



Grey level *REAL* box world ☺



1995 - 1999

Behaviour based robotics

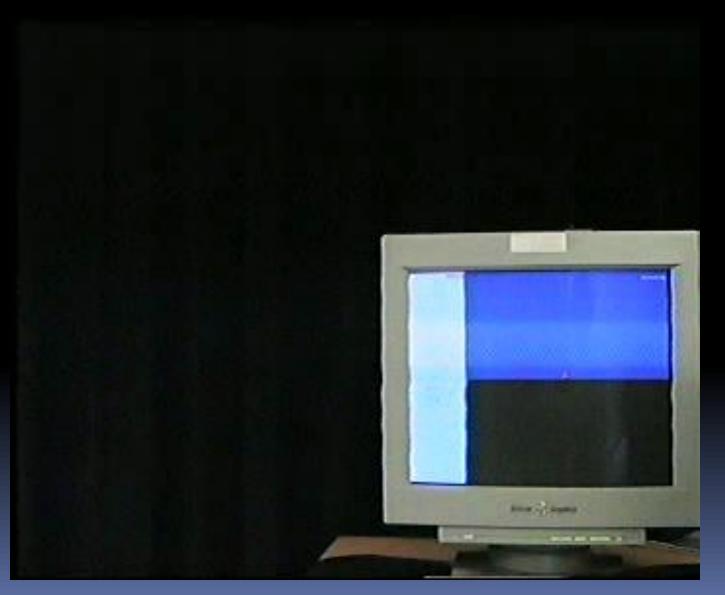
Vision for navigation

The EG lunch box ©

The interest in virtual reality

- We believe in behaviour-based robotics...
- We have all the right ideas, the real world is just a little too complicated...
- What about virtual robotics?

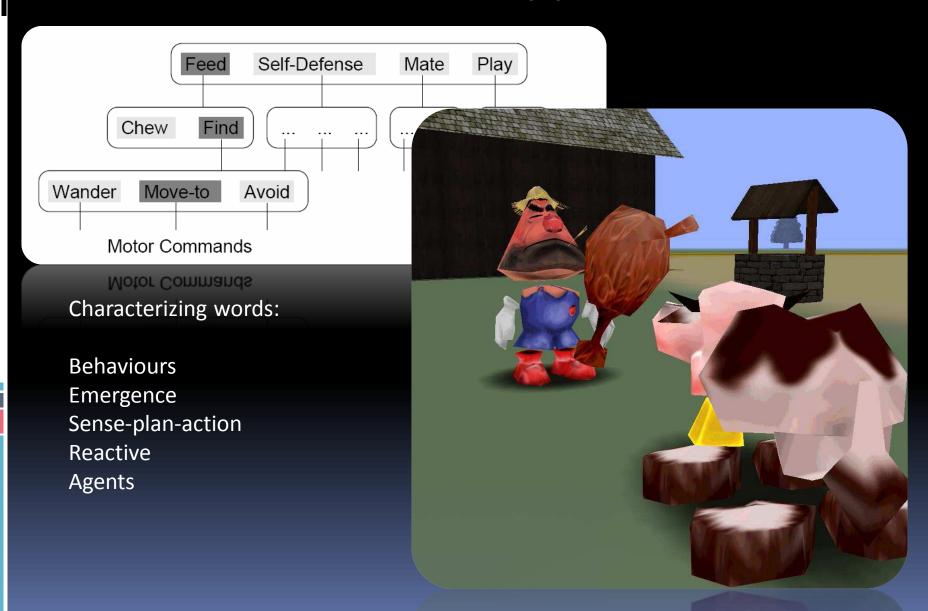
Summer 1998



Backup in case video doesn't work



Puppet 1998 - 2001



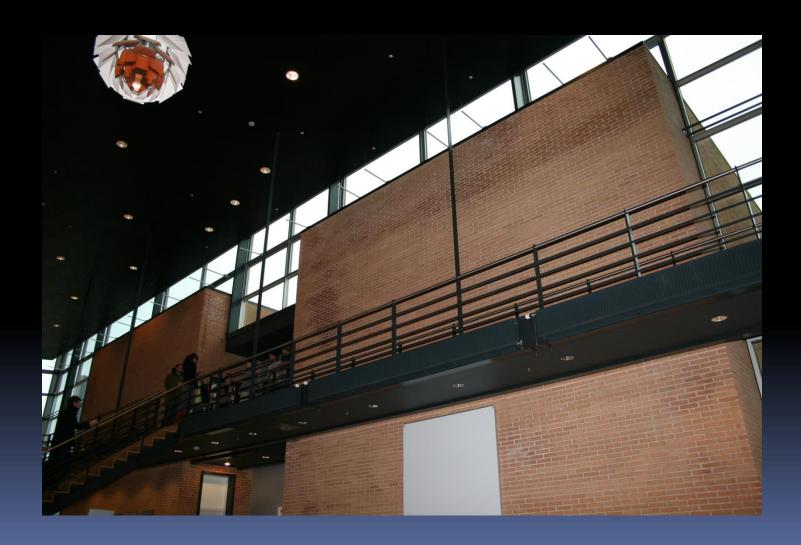
A Puppet anecdote

The proposal writing/submission crunch...

Puppet



Two important boxes...

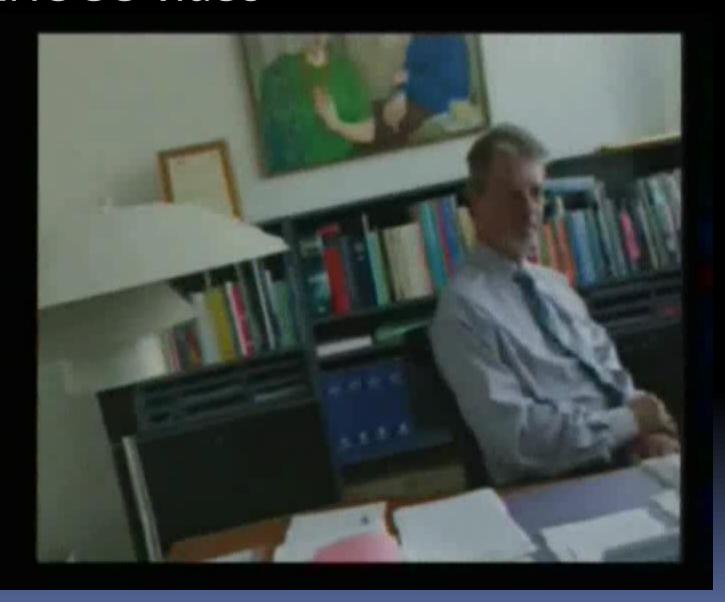


BENOGO 2002 - 2005

- Photoreal virtual reality
- Getting the world "into the box"

- We were again really, really enthusiastic
- The proposal writing was gruelling (Erik had the flu)

BENOGO video



The BENOGO box







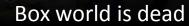
Post BENOGO

- I really, really knew what I wanted to work with
- You invested yourself in the Ballerup campus and the multi-campus institute

Colors, real-world, outdoor...





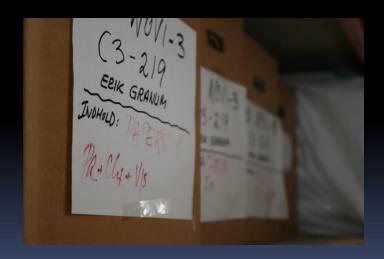


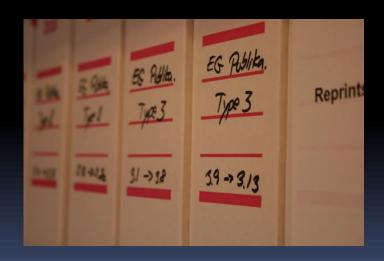
Philosophies are dead?

Systems, model-based, real-time,...

The future?

- Som vi siger på jydsk: dit "barn" er godt i vej!
- Du efterlader en arv som er uendeligt meget mere end blandede kasser





The sand box metaphor



Thanks...