

Computer - Historik

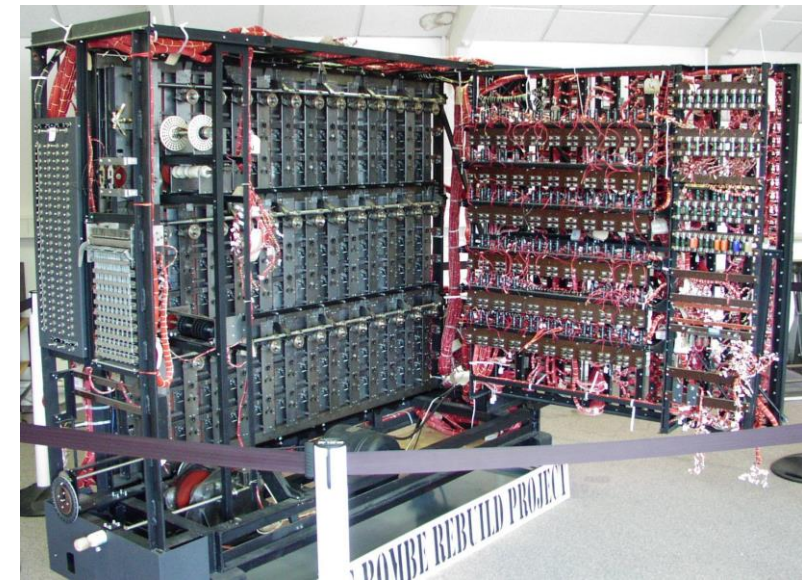
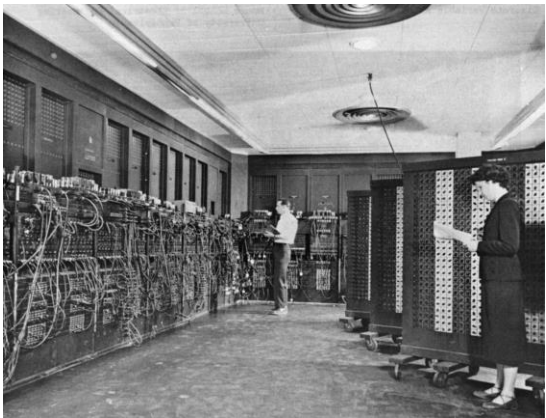
Peter Levinsky, IT - Roskilde

23.08.2020

Before the electronic period

- 1600 PASCAL mechanical machine
- 1800 Punch Card Technology (weavers) – first known sabotage
- 1930 Alan Turing Theoretical Computing (Turing machine)
- 1940 Von Neumann Architecture of Computers

- 1944 WWII – England First Computer
ENIAC – USA



1950-1960 : Mathematical + Science + (ADM)

- No OS
- No Language or assembler
- No Net
- Actor: IBM

Denmark: DASK



1960-1970 : Science + Administration (transistors)

- OS:
No OS (CICS - Multitasking)
- Language:
Assembler/CICS/Fortran/Algol
- Net:
SNA / (D)Arpa / X.25
- Actor:
IBM, Digital, HoneywellBull

Denmark: Gier / RC4000

Peter Naur – Backus-Naur notation + mem-
paging



1970-1980 : Administration (IC)

- OS:
CICS, Unix
- Language:
CICS , C, Cobol
- Net:
SNA / X.25(Minitel) / Ethernet
Internet(ARPA),
IP(1972/1975),Email(1975/1976)
- Actor:
IBM, DEC
- Processor
Intel 8086-80286 (16 bit bus)

Denmark: RC8000, DDE-Supermax,
Rovsing-CR80



1980-1990 : Administration + PC

- OS:
CICS, Unix, DOS('windows'), OS-X
- Language:
High level – C, C++, Pascal
- Net:
'internet'-familien
- Actor:
Microsoft, Compact, HP, SUN, IBM
- Processor
Intel 80386-80586/pentium (32 bit
bus x86)

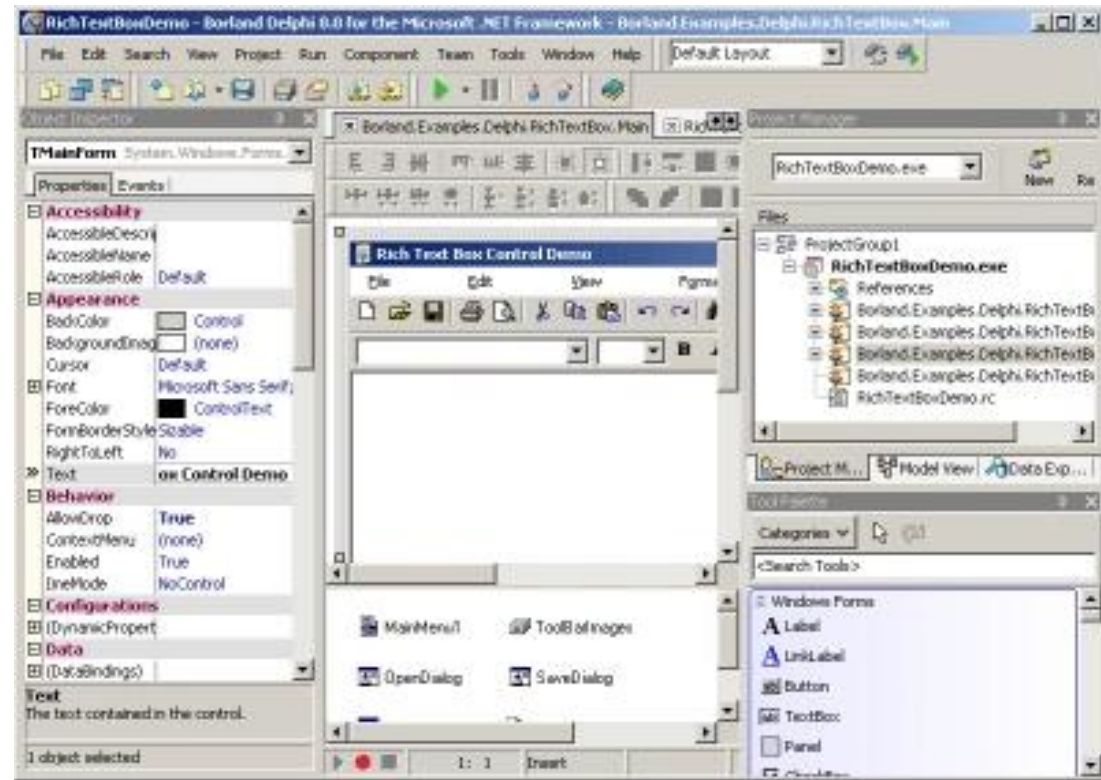
Denmark: Partner/RC900, Piccoline/Piccolo,
DDE, Roving
Bjarne Staustrop C++



1990-2000 : Personal

- OS:
Windows, Unix/Linux, OS-X
C++, Java, C#, Delphi
- Net:
Internet, ADSL
- Actor:
Microsoft
- Processor:
Intel 80586(Pentium4->) 32 bit
(x86)

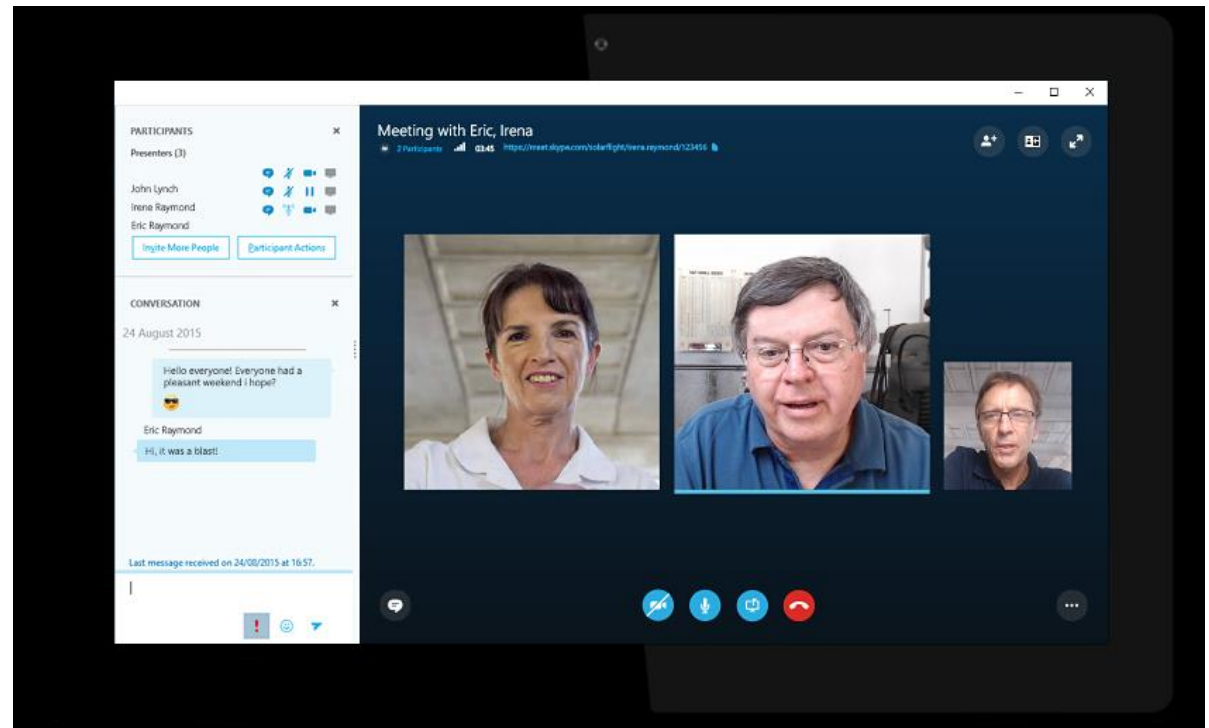
Denmark: Navision (Erik+Preben Damgaard)
Anders Hejlsberg - IDE



2000-2010 : Personal/Net

- OS:
Windows, Linux, OS-X
- Language:
Java, C#
- Net:
Internet, Wifi
- Actor:
Microsoft, Google, Apple
- Processor:
Intel core 64 bit (x64)

Denmark: Skype
Janus Friis



2010-2020 : Mobile / Cloud

- OS:
IOS, Android
Windows, Unix/Linux, OS-X
Denmark:?
- Language:
C#, Java, Objective-C/Swift, node.JS
.....?
- Net:
Internet, 4/5G net?
- Actor:
Google, Apple, Microsoft, Facebook,
Amazon?

History Exercise

- Assume the development within cars have followed computers
- 1982 – The first 'PC' in Denmark
- 1982 – The first VW Polo in Denmark



1982
Memory in RAM
CPU frequency
Disk

2020
Memory in RAM
CPU frequency
Disk



Same progress

1982
No Of Seats 4
Top Speed 167 Km/h
Cargo 400 Kg

2020
No Of Seats ???
Top Speed ???
Cargo ???



