# Snippets of User Interface History

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#### An early statement on input-output

## Evaluation of Automatic Computing Machines

FRANZ ALT National Bureau of Standards

#### An early statement on input-output

"The input and output organs have received less attention from designers than any other machine elements.

Consequently they are still in a rudimentary stage."

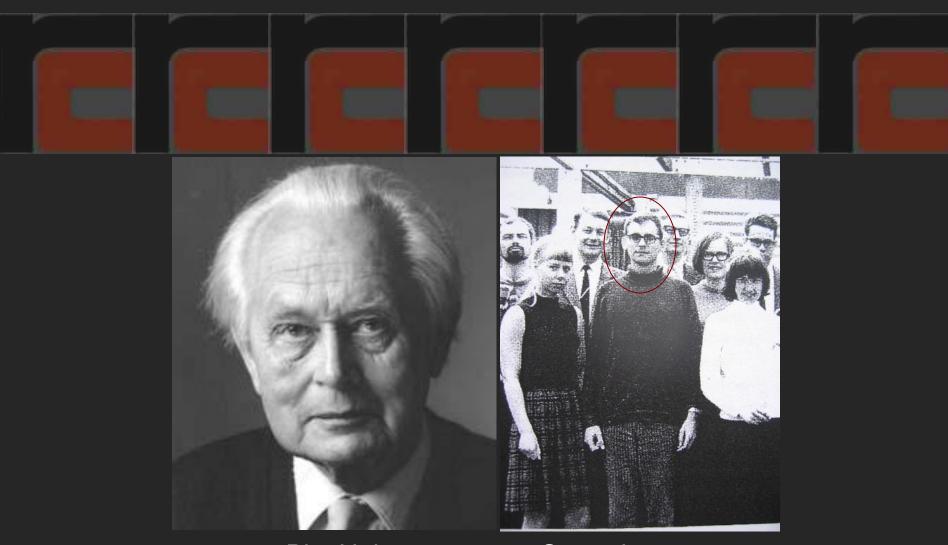
#### Where are we?

1941

1951

1961

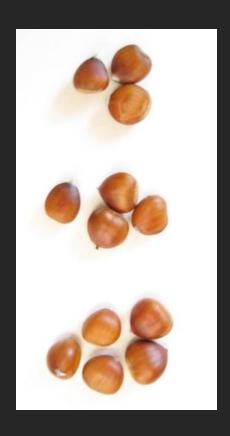
#### An early computer game



Piet Hein

Søren Lauesen

#### The revised Nim game



**Classic Nim game** 



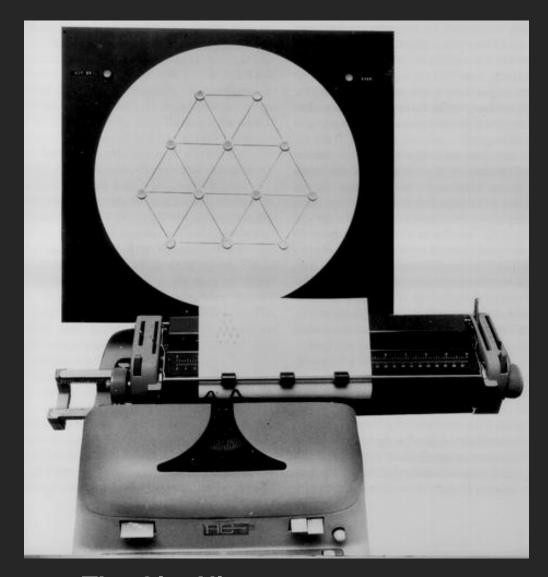
Piet Hein's draft of the revised game

The revised game board in wood

#### The revised Nim computer game



The revised game board in wood



The Gier Nim computer game

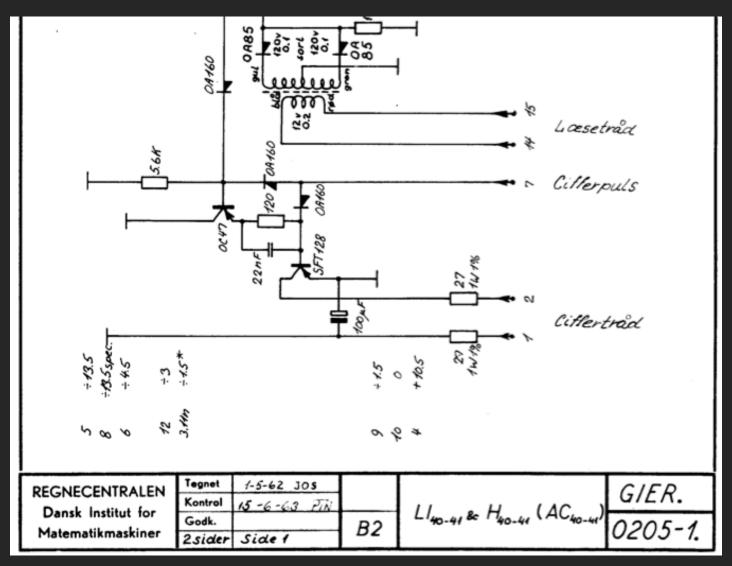


The Gier computer console

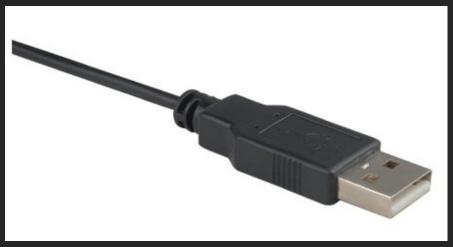
The Gier computer



#### Making connections – soldering?



#### Making connections – soldering?







**USB** connector

Wi-Fi

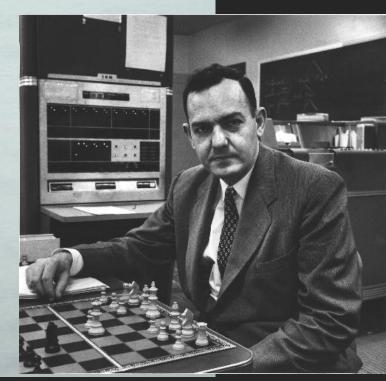
Bluetooth

Do you *really* appreciate your USB, Wi-Fi and Bluetooth connections?

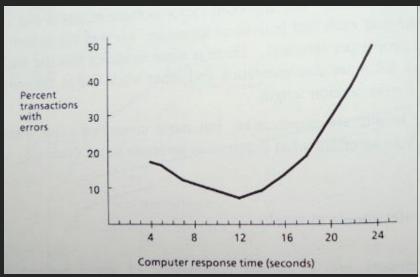
#### Suggestion re. variable response times

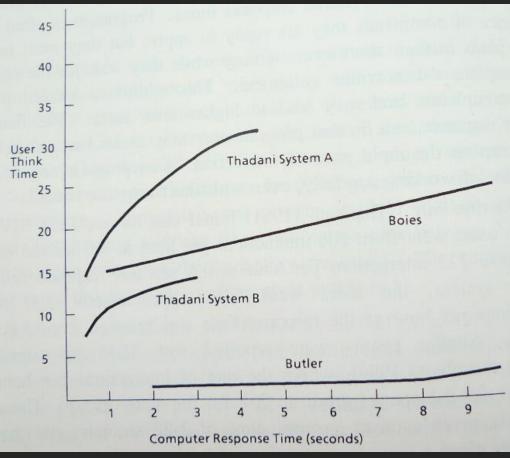
Herbert A. Simon, R. K. Mellon Professor of Computer Sciences and Psychology

Reflections on Time Sharing From a User's Point of View



#### Time sharing and variable response times





#### Herbert Simon: Re. variable response times

He suggested

In case of highly variable response times, the system should enforce a fixed response time of *5 minutes*, allowing the user to leave the terminal and do other work before resuming work with the system.

#### Suggestion re. variable response times

### True or false?

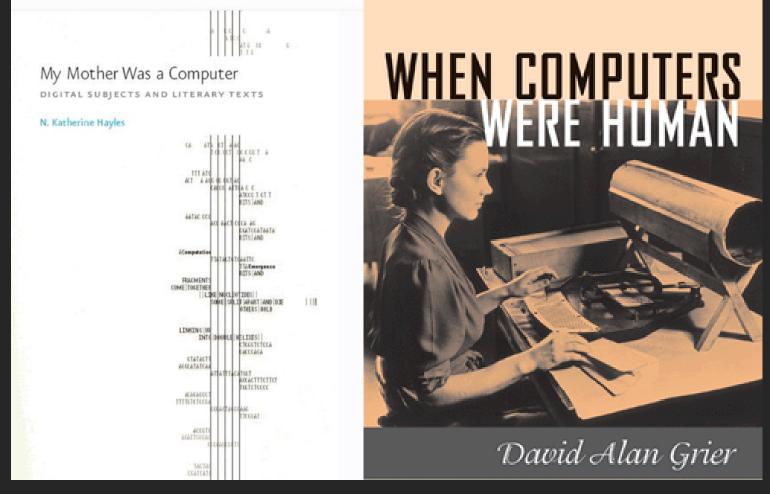
#### Early computers

Some time in the last century you could hear this statement

"My mother is a computer!"

Was this statement meaningful?

Yes or No



Yes - up to the mid-1950s the term *computer* meant a *person* doing calculations

Thank you for your attention!