

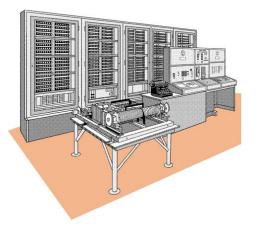
### Multimedia Library Collection: Art & Graphics

# Zuse Z4

Rohlmann, Benedikt

In 1935 Konrad Zuse began working for the Henschel Flugzeugwerke, an arms manufacturer for Nazi Germany, in Berlin-Schönefeld, where he developed the Z3 and Z4 electromechanical computers. Although Zuse was not a member of the Nazi Party, some of its high-ranking members supported and financed his work.

Technical innovations are not always neutral and are often tied to political, economic, and social developments. Because technological innovations often serve more than one purpose, these can result in unforeseen side effects. It is important to carefully consider the long-term consequences of technological development on complex systems such as the climate, the Earth, or humans before implementing them.



Zuse Z4 by Konrad Zuse, Inv.-Nr.: 1960/74692 Benedikt Rohlmann



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# Zuse Z4

*Text and images by Benedikt Rohlmann University of the Arts (UdK), Berlin* 

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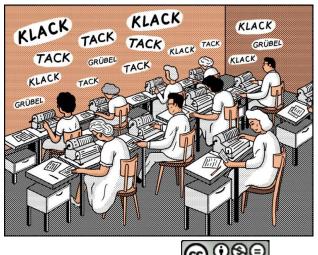


#### It all works out

1935: Henschel Flugzeugwerke "I still need the statistical calculations for the wings…" "We're working on it. But it will take a while…"



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'These eternally repetitive calculations are such a waste of time! This should be done by a machine...'



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1938: In his parents' living room, Konrad Zuse is working on the construction of his first computer, the Z1.



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1939: Completion of the Z2. It functions with 200 electromagnetic relays and can perform basic arithmetic.

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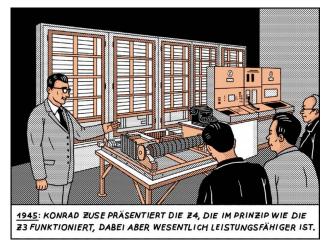


1941: Completion of the Z3. It uses around 2,000 telephone relays, is programmable, calculates in the binary system, and can store results.

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1945: Konrad Zuse presents the Z4, which operates technically like the Z3, but is substantially more efficient.

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2014: "My computer is already a million times stronger than the Z4. What will it be like in another 70 years?"



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# Author's commets

My father is a computer scientist, so we have had a computer at home for as long as I can remember. He told me about Konrad Zuse's first giant computer that filled an entire room. Due to my earlier fascination and because it is impossible to imagine my life today without a computer, I was especially interested in researching on this topic and found it a useful and educational exercise.

# How to cite

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### Further readings:

• Sources and Literature for the Anthropocene Milestone Comics

## **Related links:**

- Welcome to the Anthropocene. The Earth in Our Hands. Special exhibition at the Deutsches Museum http://www.deutsches-museum.de/en/exhibitions/special-exhibitions/archive/2015/anthropocene/
- Welcome to the Anthropocene. The Earth in Our Hands. Virtual exhibition on the Environment & Society Portal https://www.environmentandsociety.org/node/6354
- Comic-Anthology, Deutsches Museum Website
  http://www.deutsches-museum.de/sammlungen/entdecken/comics/

### Websites linked in image captions:

• http://www.deutsches-museum.de/de/sammlungen/ausgewaehlte-objekte/meisterwerke-iii/z3-und-z4/)