Griseus – TADAAA Lightning Talk #1:

Margaret Hamilton

2019-07-01

- **Born as Margaret Heafield on August 17 in 1936 (got divorced from James Cox Hamilton)**
- **Computer scientist – „mother of software engineering"**

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Early Life

- **Straight path into the world of math & philosophy**
- **inspired by poet father and school headmaster grandfather**
- **Graduates University of Michigan in 1958 with BA in Math and a minor in philosophy**

Early Career

- **1959 – starts working on meteorological simulations with Edward Norton Lorenz at Massachusetts Institute of Technology (-> chaos theory)**
- **MIT as a „cradle" of many oncoming projects and jobs**

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Early Career

- **1961-1963: MIT military (to be) projects in the fields of weather prediction and object tracking (SAGE ; -> cold war anti - aircraft defense)**
- **Achievements to become a candidate for lead developer for NASA Apollo flight software**

- **Director of MIT Charles Stark Draper laboratory – Software Engineering Division**
- **Developing error detection- and recovery routines and „Priority Displays" for Apollo and Skylab**
- **Crucial in the success of Apollo 11**

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Business Life

- **1976-1984: own company with Saydean Zeldin called HOS (Higher Order Software) in the fields of error prevention and fault tolerance**
- **1985 – Hamilton Technologies Inc. USL-Universal Systems Language „Develop before the fact"**

Legacy

- Credited with naming and gaining professional respect for „software engineering" (Together with Anthony Oettinger and Barry Boehm.)
- Pioneer for women's wider career opportunities later on in STEM fields

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Thank you for your attention!

& let's have a great a week! ☺