

## Grace Brewster Murray Hopper

When Hopper recommended the development of a new programming language that would use entirely English words, she "was told very quickly that [she] couldn't do this because computers didn't understand English." Still, she persisted. "It's much easier for most people to write an English statement than it is to use symbols," she explained. "So I decided data processors ought to be able to write their programs in English, and the computers would translate them into machine code."<sup>[20]</sup>

Her idea was not accepted for three years. In the meantime, she published her first paper on the subject, compilers, in 1952. In the early 1950s, the company was taken over by the [Remington Rand](#) corporation, and it was while she was working for them that her original [compiler](#) work was done. The program was known as the A compiler and its first version was [A-0](#).<sup>[21]:11</sup>

In 1952, she had an operational link-loader, which at the time was referred to as a compiler. She later said that "Nobody believed that," and that she "had a running compiler and nobody would touch it. They told me computers could only do arithmetic."<sup>[22]</sup>

[https://en.wikipedia.org/wiki/Grace\\_Hopper#UNIVAC](https://en.wikipedia.org/wiki/Grace_Hopper#UNIVAC)



Humans are allergic to change. They love to say, "We've always done it this way." I try to fight that. That's why I have a clock on my wall that runs counter-clockwise.

**WE OWE A GREAT TO THE REAR ADMIRAL. NOT ONLY COULD SHE SEE WHAT WAS POSSIBLE BUT SHE MAKE IT REALITY — THE DETAILS MATTER**

