

# The era of the first self-replicating programs (70's)

## **ANIMAL** (a popular game)

- Replication through the filesystem
- No effect

**Simple Joke**

## **Creeper** (and **Reaper**) on Tenex OS (Arpanet)

- Replication through a modem and copied itself to the remote system
- Displays the message  
I'M THE CREEPER : CATCH ME IF YOU CAN

**Disruptive**

## The **Rabbit** program

- Replication through the filesystem
- Reduces system performance till crashing

**Destructive**

# Anatomy of a Virus

A **virus** can be

- a malicious code embedded in an existing program and replicates itself by infecting other programs through the filesystem or the network
- a program that exists by itself and replicates through the filesystem or network

