



Buffer Overflow Attacks

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➡ Injecting wrong data input in a way that it will be interpreted as instructions

**How data can be used in training?**

➡ Because the data and instructions are the same thing  
binary values in memory

**When was it discovered for the first time?**

→ Understood as early as 1972, first severe attack in 1988



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# What you need to know

- understand C functions
- familiar with assembly code
- understand the runtime stack and data encoding
- know how systems calls are performed
- Understand memory layout