

Lecture 1: What is Hacking?

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What is Hacking?



(re-)Use of Unintended Functions

- Unintended Function Discovery
- Creative Re-purpose & Composition

Unintended Function Discovery



Creative Re-purpose & Composition



The "never give up" example



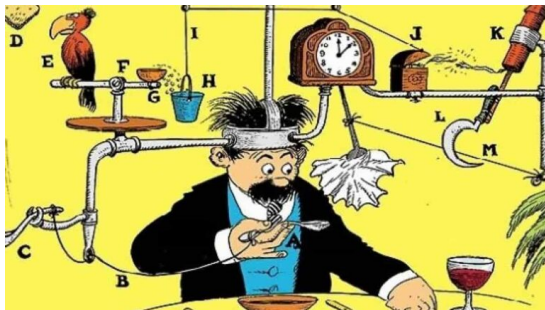
Other Hardware Examples



Simple Display Emulator with an HDMI-VGA Adapter

What is Hacking?

*The Composition of Unintended Component
in order to Achieve Unexpected Artifact.*



Professor Butts and the Self-Operating Napkin

Why hacking is Computer Science?

Exploit code is a “program”

that is composed by unintended computation abilities, achieving an unintended goal on the original platform.

Writing Exploits = Programming of Unintended Automata