SMS triggered applications with Arduino & SIM300

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The computer industry needed a way to tell the modem what number to dial through software.

- Could be implemented at the cost of a separate port
- Another solution would have been to use a separate set of "command pins" dedicated to sending and receiving commands
- Another could have used a signal pin indicating that the modem should interpret incoming data as a command

Hayes Communications introduced a solution in its modem by reusing the existing data pins with no modification. Instead, the modem itself could switch itself between one of two modes:

- Data mode in which the modem sends the data to the remote modem. (A modem in data mode treats everything it receives from the computer as data and sends it across the phone line).
- Command mode in which data is interpreted as commands to the local modem (commands that the local modem should execute).

Enter AT command

AT commands

Instructions used to control a modem

AT is the abbreviation of ATtention

Every command line starts with "AT" or "at"

AT Commands

The starting "AT" is the prefix that informs the modem about the start of a command line. It is not part of the AT command name.

For example, D is the actual AT command name in ATD, and +CMGS is the actual AT command name in AT+CMGS.

Some examples

Command	Use	Example
ATI	Status (Manufacturer, Model, Revision, IMEI, capabilities)	ATI
ATDxxxxxxxxx	Dial a number	ATD+919538220092;
ATA	Answer an incoming call	ATA

Demos

Questions?

Thanks for comin' :)