

**Arduino as a Pic Programmer!**

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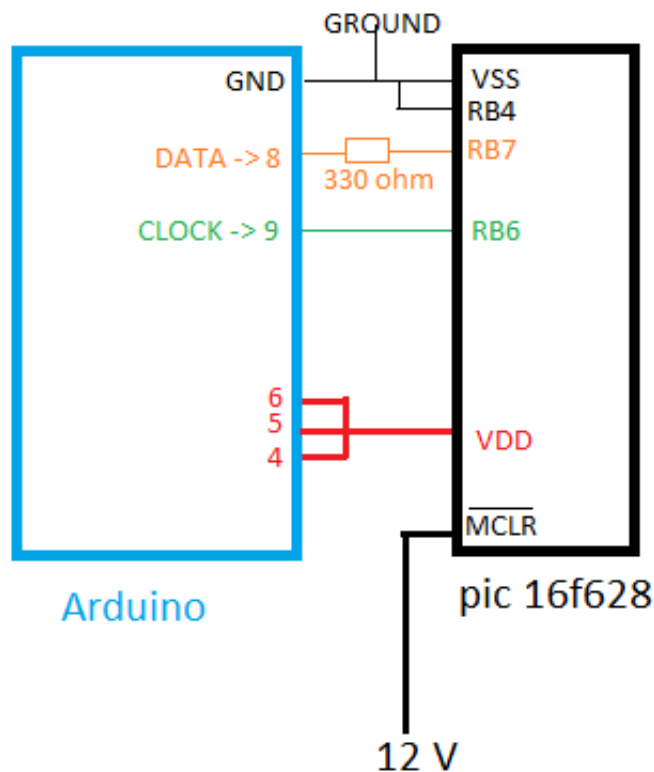
Hi everyone!

Here is my first version of my PIC programmer : program your PIC from USB!  
Cheap and easy!

**Feel free to do what you want with this project, modify it, upgrade it publish it,... but just tell me what you've done so that I can share it with everybody** 😊

It works with PIC 16F628 but should work with most pic16F; if you can try at home leave a message so that I can list the working PICs here!

Here is the circuit you need to make :



You can change the resistor value between 330 and more.

**Always RESET Arduino before putting 12V** (I don't know if we need to, but that's just a safe practice)

And here is the code :

Code: [\[Select\]](#)

```
/*
PIC programmer using Arduino
This program is distributed "AS IS", I offer no guarantee.
By Ronan Gaillard
*/
#define CLOCK 9
#define DATA 8
#define VPP1 6
#define VPP2 5
```

To program use your COM port, here are the commands :

Code: [\[Select\]](#)

```
Just after RESET send s to start with HVP (High Voltage Program

wXXXXXXXXXXXXXXX : writes word to location pointed by PC (program
i : increases PC
r : read current location
e : erase full program memory
R : resets the PIC (PC to 0)
Every command returns character D if success
```

### To Do :

- This only reads and writes to program memory on PIC, improve it to access DATA memory(=EEPROM)
- Support more PICs

**Supported PICs :** *(Your PIC is not listed here? Don't hesitate to post a comment here so that I can add it!)*

Most 16F pics should be supported

*Don't hesitate to tell me if it works with other PICs.*

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### Latest updates :

03/03/2012 : updated C# prog + arduino code

24/02/2012 : uploaded new Software that writes to Prog memory and loads the Configuration Word, and uploaded the Arduino Firmware, which supports LVP (Low Voltage Programming) by sending 'S' just after RESET.

22/02/2012 : updated the C# code : you can now burn HEX file to PIC! (only program memory supported, not EEPROM and Config word)

21/02/2012 : added the reset command, and started to program a C# program to send HEX to PIC

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Here is a 18f programmer : <https://sites.google.com/site/thehighspark/arduino-pic18f>  
Special thanks to kirill578!

Enjoy,  
Soranne

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My projects :

- Interfacing with Minitel : <http://www.arduino.cc/cgi-bin/yabb2/YaBB.pl?num=1271350467>

- Arduino PIC programmer : <http://ardu>