Marlin GCode Cheat Sheet

G0	G1				
G1	Coordinated Movement X Y Z E				
G2	CW ARC				
G3	CCW ARC				
G4	Dwell S or P				
G10	retract filament according to settings of M207				
G11	retract filament according to settings of M208				
G21	Metric values				
G28	Home all Axis (or ex: G28 X0 Y0)				
G29	Detailed Z-Probe, probes the bed at 3 points.				
G30	Single Z Probe, probes bed at current XY				
G31	Report Current Probe status				
G90	Use Absolute Coordinates				
G91 G92	Use Relative Coordinates				
G92	Set current position to cordinates given				
Some examples:					
Switch extruder					
T0	Switch to first extruder				
T1	Switch to second extruder				
after switch: G92 E0 (zero the extruded length)					
macro e G92 E0 T0 G92 E0	xample:				

G1 G2 G3 G4 G10 G11 G21 G28 G29 G30 G31 G90 G91 G92	Coordinated Movement X Y Z E CW ARC CCW ARC Dwell S or P retract filament according to settings of M207 retract filament according to settings of M208 Metric values Home all Axis (or ex: G28 X0 Y0) Detailed Z-Probe, probes the bed at 3 points. Single Z Probe, probes bed at current XY Report Current Probe status Use Absolute Coordinates Use Relative Coordinates Set current position to cordinates given					
Some examples:						
Switch extruder TO Switch to first extruder T1 Switch to second extruder after switch: G92 E0 (zero the extruded length)						
macro example: G92 E0 T0 G92 E0						
M104 T0 S0 M104 T1 S240		;extruder 1 heater off ;extruder 2 heat to 240°				
M140 S0		;heated bed heater off				
G1 Z15.0 F9000		;move the platform down 15mm				
G1 E-1 F300		;retract the filament a bit				

RepRap I	
M0	Unconditional stop. Wait to press LCD button (ULTRA_LCD)
M1	Same as M0
	Set extruder target temp
M105	Read current temp
M106	Fan on
M107	
	Wait for extruder current temp to reach target temp.
M114	Display current position
Custom I	
M17	Enable/Power all stepper motors
M18	Disable all stepper motors; same as M84
M20	List SD card
M21	Init SD card
M22	Release SD card
M23	Select SD file (M23 filename.g)
M24	Start/resume SD print
M25	Pause SD print
M26	Set SD position in bytes (M26 S12345)
M27	Report SD print status
M28	Start SD write (M28 filename.g)
M29	Stop SD write
M30	Delete file from SD (M30 filename.g)
M31	Output time since last M109 or SD card start to serial
M42	Change pin status via gcode
M80	Turn on Power Supply
M81	Turn off Power Supply
M82	Set E codes absolute (default)
M83	Set E codes relative while in Absolute Coordinates (G90) mode
M84 S?	Disable steppers until next move. S0 to disable the timeout.
M85	Set inactivity shutdown timer with parameter S.
M92	Set axis_steps_per_unit same syntax as G92
M114	Output current position to serial port
M115	Capabilities string
M117	display message
M119	Output Endstop status to serial port
	Set bed target temp
M190 S?	Wait for bed current temp to reach target temp.
M200	Set filament diameter

M201	Set max acceleration in units/s^2 for print moves		
M202	Set max acceleration in units/s^2 for travel moves		
M203	Set maximum feedrate that your machine can sustain		
M204	Set default acceleration: S normal moves T filament only moves		
(M204 S3000 T7000) im mm/sec^2 also sets minimum segment time in			
ms (B20000) to prevent buffer underruns and M20 minimum feedrate			
M205	advanced settings: minimum travel speed S=while printing		
T=travel only, B=minimum segment time X= maximum xy jerk, Z=maxi-			
mum Z jerk, E=maximum E jerk			

	111200	set daditional from en ig onset		
	M207	set retract length S[positive mm] F[feedrate mm/sec] Z[addi-		
	tional zlift/hop]			
	M208	set recover=unretract length S[positive mm surplus to the		
M207 S*] F[feedrate mm/sec]				
	M209	S<1=true/0=false> enable automatic retract detect if the slice		
	did not s	ot support G10/11: every normal extrude-only move will be		
	classified as retract depending on the direction.			
	M220	S- set speed factor override percentage		
	M221	S- set extrude factor override percentage		
	M240	Trigger a camera to take a photograph		
	M301	Set PID parameters P I and D		

set additional homeing offset

target temperature = 150C) Finish all moves M400 M500 stores paramters in EEPROM

PID relay autotune S sets the target temperature. (default

reads parameters from EEPROM (if you need reset them after M501 you changed them temporarily).

reverts to the default "factory settings". You still need to store them in EEPROM afterwards if you want to.

print the current settings (from memory not from eeprom) M503

M999 Restart after being stopped by error

Allow cold extrudes



M302

