

Rating	Name	Date	Description	Link
	HOBBYKING CHEETAH: BUILDING RUNNING ROBOTS FROM HOBBY MOTORS	9 Feb 2020	damping	<a href="https://hackaday.com/2018/06/24/hobbyking-cheetah-building-running-robots-from-hobby-motors/">https://hackaday.com/2018/06/24/hobbyking-cheetah-building-running-robots-from-hobby-motors/</a>
	Dog Body Proportions	11 Feb	Dog proportions	<a href="https://sketchy.com/sketchy-body-proportions">https://sketchy.com/sketchy-body-proportions</a>
	Understanding Kv Ratings	11 Feb	Kv rating of motors	<a href="https://www.servotips.com/understanding-kv-ratings/">https://www.servotips.com/understanding-kv-ratings/</a>
	Kite String Useful Info, Plus A General Ramble	11 Feb	types of kite string	<a href="https://www.mybestkite.com/kite-string.html">https://www.mybestkite.com/kite-string.html</a>
	Building a Lower-power Linear Actuator with Arduino   James Bruton	13 Feb	Linear actuator construction	<a href="https://www.youtube.com/watch?v=WAtG6xyTtU">https://www.youtube.com/watch?v=WAtG6xyTtU</a>
	This robot taught itself how to walk and it's as clumsy as a newborn deer	13 Feb	Basic info on a terpy bot	<a href="https://www.digitalside.com/terpy/terpy-robot-learns-to-walk/">https://www.digitalside.com/terpy/terpy-robot-learns-to-walk/</a>
	Running Bi-Directional ESC with Arduino (Forward & Reverse)	13 Feb	Running a BLDc forward and back	<a href="https://www.spsys.com/2015/02/13/bidirectional-bldc-arduino-esc-cadeframe.html">https://www.spsys.com/2015/02/13/bidirectional-bldc-arduino-esc-cadeframe.html</a>
	RPM visualiser	16 Feb	Simulates RPM encoder	<a href="https://circuitdiy.net/arduino/rpm-visualiser/">https://circuitdiy.net/arduino/rpm-visualiser/</a>
	ADXL345 library for sparkfun redboard turbo giving wrong readings	16 Feb	White causing bad readings. The 32 bit mpu	<a href="https://stackoverflow.com/questions/5074464/adxl345-library-for-sparkfun-redboard-turbo-giving-wrong-readings">https://stackoverflow.com/questions/5074464/adxl345-library-for-sparkfun-redboard-turbo-giving-wrong-readings</a>
	ADXL345 Hookup Guide	16 Feb	Connecting the accelerometer	<a href="https://learn.sparkfun.com/tutorials/adxl345-hookup-guide/">https://learn.sparkfun.com/tutorials/adxl345-hookup-guide/</a>
	Topic: wrong readings from ADXL345 (Read 7328 times)	16 Feb	More wired readings	<a href="https://forum.arduino.cc/index.php?topic=133031.0">https://forum.arduino.cc/index.php?topic=133031.0</a>
	Programming ESP8266 ESP-12E NodeMCU Using Arduino IDE - a Tutorial	16 Feb	How to setup ide for programming the node mcu	<a href="https://www.instructables.com/Arduino-Programming-ESP8266-ESP-12E-NodeMCU-Using-Arduino-IDE/">https://www.instructables.com/Arduino-Programming-ESP8266-ESP-12E-NodeMCU-Using-Arduino-IDE/</a>
	How I2C Communication Works and How To Use It with Arduino	17 Feb	Using RAW I2c. Very nice	<a href="https://howtomechatronics.com/tutorials/arduino/how-to-i2c-communication-works-and-how-to-use-it-with-arduino/">https://howtomechatronics.com/tutorials/arduino/how-to-i2c-communication-works-and-how-to-use-it-with-arduino/</a>
	bluetooth <= >, bluetooth right < >	17 Feb	Basic bit shifting	<a href="https://www.arduino.cc/en/tutorial/bluetooth">https://www.arduino.cc/en/tutorial/bluetooth</a>
	Topic: IF with AND and OR fuctions (Read 299634 times)	17 Feb	Some logic symbols	<a href="https://forum.arduino.cc/index.php?topic=45411.0">https://forum.arduino.cc/index.php?topic=45411.0</a>
	Intro to Arduino: I2C Serial Communication	17 Feb	Raw I2C on arduino	<a href="https://the-electric.com/3knowledge-base/intro-to-arduino-i2c-serial-communication/">https://the-electric.com/3knowledge-base/intro-to-arduino-i2c-serial-communication/</a>
	Headedinal	17 Feb	Using the write command arduino	<a href="https://www.arduino.cc/en/Reference/Write">https://www.arduino.cc/en/Reference/Write</a>
	ADXL345.pdf	17 Feb	Really good vid on i2c	<a href="https://www.youtube.com/watch?v=ak3uWd38">https://www.youtube.com/watch?v=ak3uWd38</a>
	How To Track Orientation with Arduino and ADXL345 Accelerometer	17 Feb	Data sheet for ADXL345 very useful	<a href="https://www.analog.com/media/en/technical-documentation/data-sheets/ADXL345.pdf">https://www.analog.com/media/en/technical-documentation/data-sheets/ADXL345.pdf</a>
	Serial Communication Between Two Arduino Boards	17 Feb	Good info on reading values from accelerometer	<a href="https://howtomechatronics.com/tutorials/arduino/how-to-track-orientation-with-arduino-and-adxl345-accelerometer/">https://howtomechatronics.com/tutorials/arduino/how-to-track-orientation-with-arduino-and-adxl345-accelerometer/</a>
	Simple Grid Graph Paper PDF Generator	18 Feb	Some very basic info on arduino to arduino com	<a href="https://not-a-guy.com/arduino/serial-communication-between-two-arduino-boards/">https://not-a-guy.com/arduino/serial-communication-between-two-arduino-boards/</a>
	HingeJoint motor	20 Feb	Graph for grid	<a href="https://rocmotion.com/arduino/robotics/">https://rocmotion.com/arduino/robotics/</a>
	Acute Angles	25 Feb	Using grid for unity grid	<a href="https://www.mathsisfun.com/acute.html">https://www.mathsisfun.com/acute.html</a>
	Triangles	25 Feb	Basic angles	<a href="https://www.mathsisfun.com/triangle.html">https://www.mathsisfun.com/triangle.html</a>
	Find inverse of cos	2 March	All de types of triangles	<a href="https://stackoverflow.com/questions/1400899/inverse-of-cos">https://stackoverflow.com/questions/1400899/inverse-of-cos</a>
	Math Class	2 March	Inverse Trig functions, Converting from radians	<a href="https://docs.microsoft.com/en-us/dotnet/framework/math/mathframework-4-8">https://docs.microsoft.com/en-us/dotnet/framework/math/mathframework-4-8</a>
	Online Protractor	2 March	Some C# maths	<a href="https://www.sims.com/en/compass-angles">https://www.sims.com/en/compass-angles</a>
	Creating a Restart Button	3 March	Good for angles	<a href="https://www.instructables.com/Arduino/Restart-Button/">https://www.instructables.com/Arduino/Restart-Button/</a>
	Input.GetKeyDown	3 March	Restarting Sean unity	<a href="https://docs.unity3d.com/ScriptReference/Input.GetKeyDown.html">https://docs.unity3d.com/ScriptReference/Input.GetKeyDown.html</a>
	Jackie on the treadmill in slow motion -part 1	3 March	Button pressed unity	<a href="https://www.youtube.com/watch?v=yzqQ4wCPmg">https://www.youtube.com/watch?v=yzqQ4wCPmg</a>
	How to Find the Distance Between Two Points - How to Use the Distance Formula	3 March	Slow mo of dog walking	<a href="https://www.youtube.com/watch?v=9K4P5G4p4gI">https://www.youtube.com/watch?v=9K4P5G4p4gI</a>
	Calling function from other scripts C#	3 March	Distance between two points	<a href="https://docs.unity3d.com/ScriptReference/Function.FromOtherScript.cs.html">https://docs.unity3d.com/ScriptReference/Function.FromOtherScript.cs.html</a>
	Multi-dimensional Arrays	3 March	Calling script from component Unity	<a href="https://www.youtube.com/watch?v=5Dn3uXUJLM">https://www.youtube.com/watch?v=5Dn3uXUJLM</a>
	Triangle Dissection	7 March	Idk what's wrong with c# arrays	<a href="https://www.khanacademy/a/geometry/a/multi-dimensional-array">https://www.khanacademy/a/geometry/a/multi-dimensional-array</a>
	Dissecting Triangles into Isosceles Triangles	7 March	that's beautiful, not useful yet but beautiful	<a href="https://www.mathworld.wolfram.com/TriangleDissection.html">https://www.mathworld.wolfram.com/TriangleDissection.html</a>
	What Are Sine, Cosine, and Tangent?	7 March	Interesting	<a href="https://www.khanacademy/a/trigonometry/a/sine-cosine-and-tangent">https://www.khanacademy/a/trigonometry/a/sine-cosine-and-tangent</a>
	Math Antics - Triangles	7 March	What's a Scalene Triangle?	<a href="https://www.youtube.com/watch?v=5Dn3uXUJLM">https://www.youtube.com/watch?v=5Dn3uXUJLM</a>
	Obtuse Triangle	7 March	Good Triangles vid	<a href="https://www.youtube.com/watch?v=5Dn3uXUJLM">https://www.youtube.com/watch?v=5Dn3uXUJLM</a>
	Equilateral, Isosceles and Scalene	7 March	Good triangle visualiser	<a href="https://www.mathsisfun.com/definitions/obtuse-triangle.html">https://www.mathsisfun.com/definitions/obtuse-triangle.html</a>
	How to use law of cosines to find the missing angles of a triangle given SSS	10 March	Good basic triangle info	<a href="https://www.mathsisfun.com/triangle.html">https://www.mathsisfun.com/triangle.html</a>
	The Law of Cosines	10 March	How Laws of cosines work	<a href="https://www.youtube.com/watch?v=5Dn3uXUJLM">https://www.youtube.com/watch?v=5Dn3uXUJLM</a>
	PID Controller Basics & Tutorial: PID Implementation in Arduino	16 March	How Laws of cosines work	<a href="https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html">https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html</a>
	Introduction: PID Controller Design	16 March	How Laws of cosines work	<a href="https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html">https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html</a>
	Arduino IR Obstacle Sensor: Tutorial and Manual	16 March	How Laws of cosines work	<a href="https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html">https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html</a>
	Creating and Throwing Exceptions (C# Programming Guide)	16 March	How Laws of cosines work	<a href="https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in-arduino.html">https://www.mathsisfun.com/geometry/pid-controller-basics-and-tutorial-pid-implementation-in</a>



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