

TinkrPostr

ELECTRONICS CHEAT SHEET POSTER

Your quick reference companion to learning, understanding and demystifying your electronics projects

Ohm's Law



American Wire Gauge

AWG	Diameter (in)	Area (in ²)	Resistance (ohm/ft)	Resistance (ohm/100ft)
1	0.4433	0.2081	0.000161	0.0161
2	0.3959	0.1581	0.000208	0.0208
3	0.3576	0.1267	0.000262	0.0262
4	0.3249	0.1013	0.000331	0.0331
5	0.2957	0.0806	0.000416	0.0416
6	0.2695	0.0642	0.000520	0.0520
7	0.2449	0.0510	0.000651	0.0651
8	0.2219	0.0403	0.000817	0.0817
9	0.2003	0.0320	0.001019	0.1019
10	0.1887	0.0258	0.001260	0.1260
11	0.1770	0.0207	0.001558	0.1558
12	0.1653	0.0166	0.001918	0.1918
13	0.1545	0.0133	0.002349	0.2349
14	0.1443	0.0107	0.002873	0.2873
15	0.1349	0.0084	0.003508	0.3508
16	0.1260	0.0066	0.004294	0.4294
17	0.1176	0.0052	0.005259	0.5259
18	0.1094	0.0041	0.006424	0.6424
19	0.1019	0.0032	0.007837	0.7837
20	0.0943	0.0025	0.009549	0.9549
21	0.0875	0.0019	0.011640	1.1640
22	0.0812	0.0015	0.014190	1.4190
23	0.0755	0.0011	0.017290	1.7290
24	0.0703	0.0009	0.020940	2.0940
25	0.0656	0.0007	0.025140	2.5140
26	0.0613	0.0005	0.030000	3.0000
27	0.0573	0.0004	0.035540	3.5540
28	0.0536	0.0003	0.041880	4.1880
29	0.0502	0.0002	0.048940	4.8940
30	0.0470	0.0002	0.056740	5.6740
31	0.0440	0.0001	0.065290	6.5290
32	0.0412	0.0001	0.074610	7.4610
33	0.0386	0.0000	0.084740	8.4740
34	0.0362	0.0000	0.095690	9.5690
35	0.0340	0.0000	0.010740	10.7400
36	0.0319	0.0000	0.011990	11.9900
37	0.0299	0.0000	0.013340	13.3400
38	0.0280	0.0000	0.014790	14.7900
39	0.0262	0.0000	0.016340	16.3400
40	0.0245	0.0000	0.017990	17.9900
41	0.0229	0.0000	0.019740	19.7400
42	0.0214	0.0000	0.021590	21.5900
43	0.0200	0.0000	0.023540	23.5400
44	0.0186	0.0000	0.025590	25.5900
45	0.0173	0.0000	0.027740	27.7400
46	0.0161	0.0000	0.029990	29.9900
47	0.0149	0.0000	0.032340	32.3400
48	0.0138	0.0000	0.034790	34.7900
49	0.0128	0.0000	0.037340	37.3400
50	0.0118	0.0000	0.040090	40.0900

Other Stuff

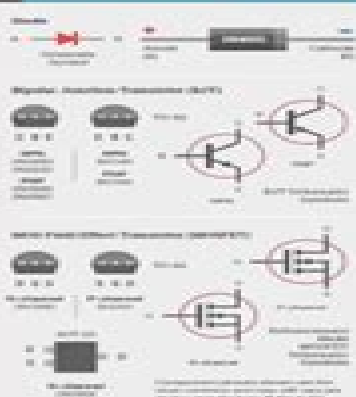
Checklist for the Hobbyist	References
1. Safety: Always wear safety glasses. Never work on live circuits. Always disconnect power before working.	1. Ohm's Law: $V = I \times R$
2. Power: Always calculate power dissipation. Never exceed component ratings.	2. Power: $P = V \times I$
3. Voltage: Always check voltage levels. Never exceed component ratings.	3. Voltage: $V = I \times R$
4. Current: Always check current levels. Never exceed component ratings.	4. Current: $I = V / R$
5. Resistance: Always check resistance levels. Never exceed component ratings.	5. Resistance: $R = V / I$
6. Capacitance: Always check capacitance levels. Never exceed component ratings.	6. Capacitance: $C = Q / V$
7. Inductance: Always check inductance levels. Never exceed component ratings.	7. Inductance: $L = \Phi / I$
8. Frequency: Always check frequency levels. Never exceed component ratings.	8. Frequency: $f = 1 / T$
9. Temperature: Always check temperature levels. Never exceed component ratings.	9. Temperature: $T = P / hA$
10. Humidity: Always check humidity levels. Never exceed component ratings.	10. Humidity: $H = P / P_{sat}$

Joseph Picafort

Resistor Color Coding

Band	Color	Value	Multiplier	Value	Multiplier	Value	Multiplier
1	Black	0	1	10	10	100	100
2	Brown	1	10	100	100	1000	1000
3	Red	2	100	1000	1000	10000	10000
4	Orange	3	1000	10000	10000	100000	100000
5	Yellow	4	10000	100000	100000	1000000	1000000
6	Green	5	100000	1000000	1000000	10000000	10000000
7	Blue	6	1000000	10000000	10000000	100000000	100000000
8	Violet	7	10000000	100000000	100000000	1000000000	1000000000
9	Grey	8	100000000	1000000000	1000000000	10000000000	10000000000
10	White	9	1000000000	10000000000	10000000000	100000000000	100000000000

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor Type	Value	Multiplier	Value	Multiplier	Value	Multiplier
1	100	1	1000	1000	10000	10000
2	1000	1000	10000	10000	100000	100000
3	10000	10000	100000	100000	1000000	1000000
4	100000	100000	1000000	1000000	10000000	10000000
5	1000000	1000000	10000000	10000000	100000000	100000000
6	10000000	10000000	100000000	100000000	1000000000	1000000000
7	100000000	100000000	1000000000	1000000000	10000000000	10000000000
8	1000000000	1000000000	10000000000	10000000000	100000000000	100000000000
9	10000000000	10000000000	100000000000	100000000000	1000000000000	1000000000000

Light Emitting Diode (LED)

Color	Wavelength (nm)	Forward Voltage (V)
Red	620 - 750	1.8 - 2.2
Orange	590 - 620	2.0 - 2.4
Yellow	570 - 590	2.1 - 2.5
Green	520 - 570	2.8 - 3.2
Blue	450 - 470	3.0 - 3.6
Violet	380 - 450	3.0 - 4.0

Surface Mount Devices (SMDs)

SMD Resistor Markings	Value	Multiplier	Value	Multiplier	Value	Multiplier
100	100	1	1000	1000	10000	10000
1000	1000	1000	10000	10000	100000	100000
10000	10000	10000	100000	100000	1000000	1000000
100000	100000	100000	1000000	1000000	10000000	10000000
1000000	1000000	1000000	10000000	10000000	100000000	100000000
10000000	10000000	10000000	100000000	100000000	1000000000	1000000000
100000000	100000000	100000000	1000000000	1000000000	10000000000	10000000000
1000000000	1000000000	1000000000	10000000000	10000000000	100000000000	100000000000

Electrical Units

Quantity	Symbol	Unit	Quantity	Symbol	Unit
Resistance	R	Ohm	Capacitance	C	Farad
Voltage	V	Volt	Inductance	L	Henry
Current	I	Ampere	Power	P	Watt
Energy	E	Joule	Frequency	f	Hertz
Power	P	Watt	Time	t	Second
Frequency	f	Hertz	Angle	θ	Radian

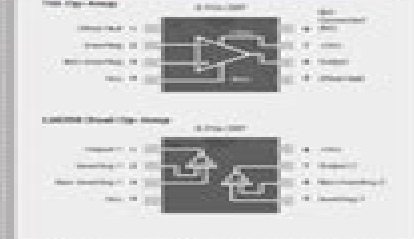
Matrix Profiles

Matrix	Value	Unit	Matrix	Value	Unit
1	100	1	1000	1000	1000
2	1000	1000	10000	10000	10000
3	10000	10000	100000	100000	100000
4	100000	100000	1000000	1000000	1000000
5	1000000	1000000	10000000	10000000	10000000
6	10000000	10000000	100000000	100000000	100000000
7	100000000	100000000	1000000000	1000000000	1000000000
8	1000000000	1000000000	10000000000	10000000000	10000000000
9	10000000000	10000000000	100000000000	100000000000	100000000000

Regulator



Op-Amp



555 IC



Make your life easy



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Robert R. Redfield



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Runberg,2017-05-15 With Arduino you can build any hardware project you can imagine This open source platform is designed to help total beginners explore electronics and with its easy to learn programming language you can collect data about the world around you to make something truly interactive The Arduino Inventor s Guide opens with an electronics primer filled with essential background knowledge for your DIY journey From there you ll learn your way around the Arduino through a classic hardware entry point blinking LEDs Over the course of the book 11 hands on projects will teach you how to Build a stop light with LEDs Display the volume in a room on a warning dial Design and build a desktop fan Create a robot that draws with a motor and pens Create a servo controlled balance beam Build your own playable mini piano Make a drag race timer to race toy cars against your friends Each project focuses on a new set of skills including breadboarding circuits reading digital and analog inputs reading magnetic temperature and other sensors controlling servos and motors and talking to your computer and the Web with an Arduino At the end of every project you ll also find tips on how to use it and how to mod it with additional hardware or code What are you waiting for Start making and learn the skills you need to own your technology Uses the Arduino Uno board or SparkFun RedBoard **Electronics Engineer's Reference Book** F. F.

Mazda,2013-10-22 Electronics Engineer s Reference Book Sixth Edition is a five part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems Part II covers physical phenomena such as electricity light and radiation often met with in electronic systems Part III contains chapters on basic electronic components and materials the building blocks of any electronic design Part IV highlights electronic circuit design and instrumentation The last part shows the application areas of electronics such as radar and computers [Arduino: A Quick-Start Guide](#) Maik Schmidt,2015-01-20 Arduino is an open source platform that makes DIY electronics projects easier than ever Gone are the days when you had to learn electronics theory and arcane programming languages before you could even get an LED to blink Now with this new edition of the bestselling Arduino A Quick Start Guide readers with no electronics experience can create their first gadgets quickly This book is up to date for the new Arduino Zero board with step by step instructions for building a universal remote a motion sensing game controller and many other fun useful projects This Quick Start Guide is packed with fun useful devices to create with step by step instructions and photos throughout You ll learn how to connect your Arduino to the Internet and program both client and server applications You ll build projects such as your own motion sensing game controller with a three axis accelerometer create a universal remote with an Arduino and a few cheap parts build your own burglar alarm that emails you whenever someone s moving in your living room build binary dice and learn how to solder In one of several new projects in this edition you ll create your own video game console that you can connect to your TV set This book is completely updated for the new Arduino Zero board and the latest advances in supporting software and tools for the Arduino Sidebars throughout the book point you to exciting real world projects using the Arduino exercises extend your skills and What If It Doesn t Work sections help you troubleshoot common problems With this book beginners can quickly join the

worldwide community of hobbyists and professionals who use the Arduino to prototype and develop fun useful inventions
What You Need This is the full list of all parts you d need for all projects in the book some of these are provided as part of various kits that are available on the web or you can purchase individually Sources include adafruit com makershed com radioshack com sparkfun com and mouser com Please note we do not support or endorse any of these vendors but we list them here as a convenience for you Arduino Zero or Uno or Duemilanove or Diecimila board USB cable Half size breadboard Pack of LEDs at least 3 10 or more is a good idea Pack of 100 ohm 10k ohm and 1k ohm resistors Four pushbuttons Breadboard jumper wire connector wire Parallax Ping sensor Passive Infrared sensor An infrared LED A 5V servo motor Analog Devices TMP36 temperature sensor ADXL335 accelerometer breakout board 6 pin 0 1 standard header might be included with the ADXL335 Nintendo Nunchuk Controller Arduino Ethernet shield Arduino Proto shield and a tiny breadboard optional but recommended Piezo speaker buzzer optional Tilt sensor optional A 25 30 Watts soldering iron with a tip preferably 1 16 A soldering stand and a sponge A standard 60 40 solder rosin core spool for electronics work

Electronics Workbench - User's Guide ,1995 *The Healthy Programmer* Joe Kutner,2013-06-26 Printed in full color To keep doing what you love you need to maintain your own systems not just the ones you write code for Regular exercise and proper nutrition help you learn remember concentrate and be creative skills critical to doing your job well Learn how to change your work habits master exercises that make working at a computer more comfortable and develop a plan to keep fit healthy and sharp for years to come Small changes to your habits can improve your health without getting in the way of your work The Healthy Programmer gives you a daily plan of action that s incremental and iterative just like the software development processes you re used to Every tip trick and best practice is backed up by the advice of doctors scientists therapists nutritionists and numerous fitness experts We ll review the latest scientific research to understand how being healthy is good for your body and mind You ll start by adding a small amount of simple activity to your day no trips to the gym needed You ll learn how to mitigate back pain carpal tunnel syndrome headaches and many other common sources of pain You ll also learn how to refactor your diet to properly fuel your body without gaining weight or feeling hungry Then you ll turn the exercises and activities into a pragmatic workout methodology that doesn t interfere with the demands of your job and may actually improve your cognitive skills You ll also learn the secrets of prominent figures in the software community who turned their health around by making diet and exercise changes Throughout you ll track your progress with a companion iPhone app Finally you ll learn how to make your healthy lifestyle pragmatic attainable and fun If you re going to live well you should enjoy it Disclaimer This book is intended only as an informative guide for those wishing to know more about health issues In no way is this book intended to replace countermand or conflict with the advice given to you by your own healthcare provider including Physician Nurse Practitioner Physician Assistant Registered Dietician and other licensed professionals Keep in mind that results vary from person to person This book is not intended as a substitute for medical or nutritional

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Learning UNIX James Gardner,1991 Explores the fundamentals of UNIX and includes an overview of the operating system the UNIX files system and an introduction to the KOM shell The book compares UNIX and DOS and shows how to work with text files A version of the MKS Toolkit is contained on 2 free disks

Portable Python Projects Mike Riley,2022-02-01 Discover easy ways to control your home with the powerful new Raspberry Pi hardware Program short Python scripts that will detect changes in your home and react with the instructions you code Use new add on accessories to monitor a variety of measurements from light intensity and temperature to motion detection and water leakage Expand the base projects with your own IPS additions to perfectly match your own home setup Most projects in the book can be completed in under an hour giving you more time to enjoy and tweak your autonomous creations No breadboard or electronics knowledge required Get to know the latest Raspberry Pi hardware and create awesome automation solutions for home or work that don t require an electronics degree cumbersome add ons or expensive third party subscription services Create easy to run Python scripts on your own that make your Pi do things that would have required a team of automation experts to build only a few years ago Connect to and control popular home automation lighting systems from a Raspberry Pi Trigger autonomous actions based on movement temperature and timer events Power on your own computer and appliances

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