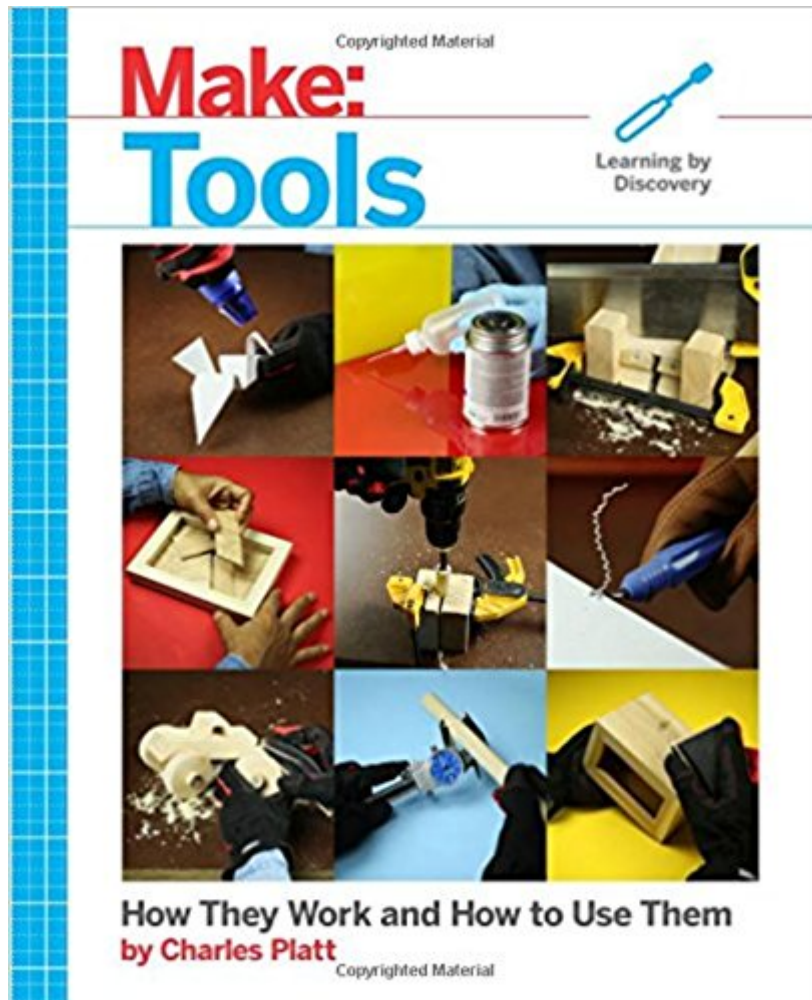


The book was found

# Make: Tools: How They Work And How To Use Them



## Synopsis

Whether you're interested in becoming a handyman or developing artisanal woodworking skills, the place to begin is by learning the fundamentals of using basic workshop tools correctly. The place to find out how is right here. *Make: Tools* is shop class in a book. Consumer-level 3D printers and CNC machines are opening up new possibilities for makers. But there will always be a need for traditional workshop skills and tools. Charles Platt's *Make: Tools* applies the same approach to its subject matter as his bestselling *Make: Electronics* -- in-depth explanations and hands-on projects that gradually increase in level of challenge. Illustrated in full color with hundreds of photographs and line drawings, the book serves as a perfect introduction to workshop tools and materials for young adults and adults alike. Platt focuses on basic hands tools and assumes no prior experience or knowledge on the part of the reader. The projects all result in fun games, toys, and puzzles. The book serves as both a hands-on tutorial a reference that will be returned to again and again.

## Book Information

Age Range: 9 and up

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## Customer Reviews

Q&A with Author Charles Platt Who is your book written for? Some of us learned how to use workshop tools from our parents. My book is written for everyone else, particularly readers ages 10-20. Shop classes at schools may not teach people creatively, and probably won't teach

anyone how to use plastics as well as wood. I fill in those gaps. What need does it fulfill for those readers? You don't need prior experience. You don't even need a workbench, and you don't need to spend much money. You end up knowing how to fabricate objects that are useful and/or beautiful, using wood and plastic. No other book explains how to do this. What skills will your readers learn? A saw, a pair of clamps, an electric drill—these things are basic. But choosing them and using them is not so basic. My book lists the sources, explains the principles, and teaches the use of tools with step-by-step photographs and diagrams. There are more than 20 projects.

Charles Platt is a Contributing Editor and regular columnist for Make magazine, where he writes about electronics. Platt was a Senior Writer for Wired magazine, has written various computer books, and has been fascinated by electronics since he put together a telephone answering machine from a tape recorder and military-surplus relays at age 15. He lives in a Northern Arizona wilderness area, where he has his own workshop for prototype fabrication and projects that he writes about for Make magazine.

This book is a gem. If you're lucky, you learned these skills by osmosis when you were young. Too many people (myself included) did not. This book is perfectly structured to teach a young adult, new homeowner, eager parent, or someone in search of an open-ended hobby. The chapters sequentially introduce new skills, with achievable projects that will lead to new ideas of your own. For the tools needed, specific manufacturers and part names are suggested, but the author freely admits there are several varieties, and favors none. There are well-written asides to add depth to your understanding, and direction for where you might gain even more knowledge. The style of writing is so good that you can picture the author sitting with you, talking you through a project and sharing what he knows--patiently, eagerly, and humbly. Children learn by playing--doing something, adjusting, trying again, not particularly concerned with the final result, just enjoying the process. It's harder for adults to learn. We don't like the embarrassment of being unskilled; we want the rapid good outcome, and we don't always have open-ended time to practice and explore. This book will make the most of your time, with a minimum of perceived embarrassment, and a make an achievable and respectable final product. This book is ideal for those who want these creative, constructive, and useful abilities. Maybe you'll work through these chapters and projects with your children. You can. Maybe you have dreams of making a wooden toy for your grandchildren. You will. Perhaps you have visions of attacking larger woodworking projects from those books that

naturally assume you know your way around a shop. You'll get there. This book can be the beginning. I highly recommend it without reservation.

It's a basic starting point for working with tools and media, including woodcraft. Great for a beginner or if your just rusty

As an experienced builder and hobbyist I expected this book to be too simple for my tastes but from the first moment I opened it both the content and style have astounded me with their depth and approachability. Platt has written one of the most engaging how-to books I have ever read; he dives right into projects and encourages the reader to do the same, with pictures and text that do an amazing job of teaching concepts that simultaneously build confidence and skills you can use across a wide range of disciplines. His explanation and techniques regarding thermoforming plastic are incredibly unique & introduced me to a world of virtually limitless potential for hobbyist projects. Don't be fooled by the title, this book goes well beyond tool use and delves into template, pattern & jig making that are at the same time simple, useful and adaptable to even the most complex projects. All done with patience and humor that has left me satisfied, educated and entertained. Even learned a bunch about geometry & statistical randomness that has finally allowed me to make sense of all those concepts my 7th grade teacher failed so miserably to get across! Well done, Platt!

This book would make the perfect gift for a grandpa to give to his grandson or granddaughter prior to a hands on workshop lesson in woodworking. The book is full of pictures and easy to understand chapters on the basics of tools and how (and why) they work. This book is back to the basics - no fancy schmancy 3D printer stuff here. The kids will learn about sawing, sanding, gluing and clamping. There are projects galore that will be within the skill range of 9 year olds up. They will learn about mitered corners and framing. These are skills that the child will carry through life. I remember my first apartment where I built simple bookcases because I couldn't afford to purchase any. All of the projects in this book also serve a purpose in expanding the math and cognitive skills of young builders. With a flat board and 145 nails they can visually see how marbles are affected by uncontrolled variables. They can build their own bean machine (think Pachinko) and bring the bell curve to life. They will learn about drilling and fitting while making a Swanee Wood Whistle. Box building turns into simple furniture. I could go on and on about the projects presented in this book - all simplified for the beginner

yet without talking down to them. This is a good book for any child from about 9 up or for that matter, any beginner into the world of building with basic tools. A scout leader would benefit, any adult in a position of teaching skills to our next generation will find this a necessary addition to their reference library. I'd give this book more than 5 stars if I was able.

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