

Read 'awl' about it

Newsletter from

The Cannock Chase Shed



Issue No. 39

Submissions and suggestions to Bob Mason at:

shednewsletter@virginmedia.com

week ending Sat 7th August 2021

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Shed News

enquiries@cannockchaseshed.org.uk goes directly to all Committee Members to answer as necessary should anyone wish to give information or make any comment.

Check our webpage...

...for information about our Shed, updates about reopening and back issues of the newsletter.

<https://cannockchaseshed.org.uk/>

We are on Facebook...

Remember we have a Facebook page, where you can chat with friends, exchange ideas or ask for advice, as well as sharing your projects.

If you are having trouble finding the bits you need for your project, why not post a request? Another member may have just what you're looking for sitting unused in their garage, or they may know where you can get one.

If you have useful items that you are loath to throw away, why not put up a post, offering them to other members, before consigning them to the tip?

Official Facebook page: Private Group

<https://www.facebook.com/groups/cannockchaseshedders>

Meet the Committee

Dave Shaw	Chairman
Leslie Jukes	Deputy chairman
Barry James	Health & Safety
Avril Green	Fundraising/Secretary
Graham Johnson	Treasurer
Tim Cutler	Project Manager

Shed Media

Peter Ross	Website/Facebook Group
Bob Mason	Newsletter

Could you...



- Sort through your photos and send me a picture and a few words? – your pet, garden, favourite holiday, your most useful tool, a current or past project, a cooking success (or disaster) or favourite recipe? – Pretty much anything you like.
- send me a suggestion of something you'd like to see included in the newsletter? – anything from just a broad idea, to a finished article.
- send in a 'reader's letter'? Share an anecdote or treasured memory? Share your expertise with those who have less experience?
- Send in something else, or help in another way that I haven't even mentioned?

Or if your shy pass it to one of the committee!!!

Notices

Can any member wishing to book a session either on Monday morning or Monday afternoon on the 2nd of August please phone me on 07964851114.

The hours for the morning are:

9-30am to 12-30pm

and the afternoon is:

1-00pm to 4-00pm.

Also, a reminder that to book a session you will need to have had both covid vaccine jabs or if you haven't had the jabs you will need to take a lateral flow test at least 12 hours before coming to the Shed.

I understand that most members prefer mornings because of other commitments in the afternoon but as we are now paying £15 a day could some members please try and book an afternoon, it would also spread out the amount of members in any one session. We will also need a supervisor for each session so if any member who is present at one of the sessions can do that it would be much appreciated.

Cleaning, washing up, tidying etc: needs to be started at least 15mins before the end of each session and maybe a little earlier in the afternoon as the keys have to be returned to the museum for 4-15pm.

Lastly, due to Government restrictions being extended until July 19th social distancing and wearing masks inside the Shed will still be required. If you don't have a mask with you, one can be supplied.

If anyone has changed their phone number or email address since first joining the Shed can they please send the new details to Graham at enquiries@cannockchaseshed.org.uk so he can update his records.

Diary Dates: **3rd August** – 10:30 Shed AGM (Provisional)

CCShed Membership status:

Extended Membership ends this month (June) and Annual Fees will again be due on 1st July 2021. Reduced this year to £17.50. Please pay Treasurer Graham direct by cash, cheque made out to Cannock Chase Shed or, direct debit giving your name and 'Fees' as Ref if there's room. Cannock Chase Shed. Sort Code 30 96 26 Account Number 47466468.

AGM

Hello Shedders,

Just confirming a few details regarding our upcoming 2021 AGM.

Date: Tuesday 3rd August

Time: 10:30 - Refreshments 10:00+

Venue: Museum of Cannock Chase (Meeting Room)

Covid safety please: Face covering, handgel + 2x jabs or negative recent test or immunity.

Dave Shaw will be sending out an Agenda and other details soon but here are a few items in preparation:

1. The 2020 AGM Minutes will need to be approved.

You can find them on our website (www.cannockchaseshed.org.uk) on the 'Documents' page under 'General Meeting Minutes' if you want to remind yourself - they have been there for a year!

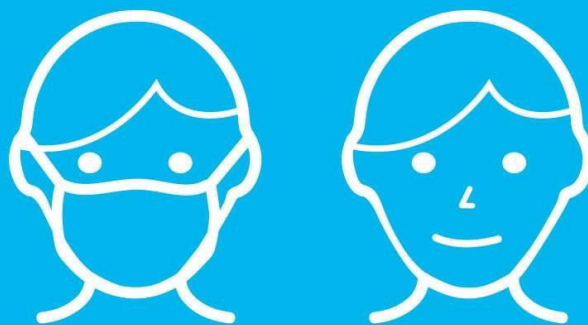
2. Graham will be asking members for their ideas for new tools/equipment that we should buy for the Shed. Suggestion slips will be provided at the AGM. These will be collected at the end and then the 6 most popular items will be collated later, prices and suppliers researched and those 6 items, chosen by the whole membership, will then be purchased. So please have a think beforehand!

3. The Committee will be proposing that CCShed becomes a charity.

A summary of why, and what that involves, can be found on the top line of the website 'Documents' page under 'Charity Proposal Info.' if you would like to find out more.

Happy reading!

Pete Ross



Covid safety please: Face covering,
handgel + 2x jabs or
negative recent test or immunity.

Crossword #17

Across

- 1. Ballroom move
- 5. Skirt feature, sometimes
- 9. M, to Einstein
- 13. Study aide
- 15. Garden walkway
- 16. Death notice, briefly
- 17. Addams Family's Fester, e.g.
- 18. Law firm newbie
- 20. Something huge
- 22. Seller of Alaska in 1867
- 23. UPC part
- 24. Foreshadow
- 25. In the direction of
- 28. Big bully
- 29. SNL segments
- 30. Refinery residue
- 31. Scruff of the neck

1	2	3	4		5	6	7	8		9	10	11	12	
13				14		15				16				
17						18				19				
20					21			22						
			23					24						
25	26	27					28							
29						30				31	32	33	34	
35					36	37				38		39		
40			41		42					43	44			
			45	46					47					
48	49	50						51						
52								53				54	55	56
57							58				59			
60						61					62			
63						64						65		

- 35. Biblical boat
- 36. Understanding
- 39. Greyhound, e.g.
- 40. Commuter line
- 42. Right on the map?
- 43. Seize illegally
- 45. Abstract style of the '60s
- 47. In a monotonous way
- 48. Merlot, for one
- 51. "___ here long?"
- 52. Embroidered hole
- 53. Success at the expense of others
- 57. Anteater's cousin
- 59. "The Audacity of Hope" author
- 60. Big cat
- 61. Palindromic term of address

- 62. Xbox enthusiast
- 63. Repair, as clothing
- 64. Nose out
- 65. Tear apart

Down

- 1. Concert memento
- 2. It can be hard to carry, for some
- 3. Cut into glass
- 4. Skunk
- 5. Sudden gush
- 6. Whip's blow
- 7. "___ a deal!"
- 8. Leaving no stone unturned
- 9. Wet
- 10. Put down
- 11. Peaceful protest

- 12. Place of another
- 14. Penitent's emotion
- 19. Rudely terse
- 21. Neil Simon's couple
- 24. Chris of "Jurassic World"
- 25. Ivan the Terrible, e.g.
- 26. Creole veggie
- 27. Online prefix with -pedia
- 28. Great time
- 30. Flat replacement
- 32. Go up against
- 33. Knitting stitch
- 34. Perceive
- 37. In the _____... (for now)
- 38. Christmas crackler
- 41. Area prone to flooding

- 44. Marine hazard
- 46. ___ Piper
- 47. Attorney's charge
- 48. Bailiwick
- 49. Eagle's home (var.)
- 50. Exorcist's target
- 51. Ecological community
- 53. Stars and Stripes, e.g.
- 54. British title
- 55. Word said before opening the eyes
- 56. Fabric quantity
- 58. Little fella

Free printable courtesy of PrintitFree.net

Frame-and-Panel Doors Made Easy



Cope-and-stick router bits
are quick but tricky.
Here's how to get perfect results

BY MICHAEL PEKOVICH

Photos, this page: Michael Pekovich; facing page: John Tetreault

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This past summer, during the remodeling of my kitchen, I was faced with the task of making 31 cabinet doors. I needed speed and simplicity, so I broke out my router table and a set of cope-and-stick router bits. These bit combinations allow you to rout door frames quickly, in two steps. The first bit routs a profile and panel groove on the inside edge of all the frame parts. The second bit is a mirror image of the first, routing a coped profile and a stub tenon on the ends of the frame rails.

What you create is not a traditional mortise-and-tenon joint. But done right, it gives you a cabinet door that's just as strong. The key is to use a flat panel of plywood or medium-density fiberboard (MDF) that's glued in place—not a raised panel, which is designed to float. All in all, I was able to build all 31 doors in the course of a weekend, from milling lumber to finish sanding.

Different types of cope-and-stick bits are available, with an array of profiles from simple thumbnails to more ornate ogees (see sidebar, right.) In general, these bits are designed for 3/4-in.-thick doors, but there are cope-and-stick bits available for stock 1/2 in. or thinner.

Start with straight, square stock

I began by milling the door-frame stock. I prefer quarter-sawn or rift-sawn boards because the tight, straight grain is both good-looking and stable. It's important that the stock be straight and square. Any slight bow or twist will make fitting the door a nightmare.

Don't be tempted to flatten an entire wide board and then rip the frame parts from it; that will lead to bowed or twisted stock. Instead, start with rough-sawn 4/4 stock and rip the parts oversize on the bandsaw. Crosscut the stock to remove any serious twist, bowing, or knots, but keep it as long as possible to reduce the number of pieces you'll have to rout. Then joint and plane the boards to final thickness (mine finished at 3/4 in.), and rip to the exact width on the tablesaw.

Rout the edge profile on all pieces

Now you can rout the edge profile on all of the door-frame pieces while they are still long. Start with the "stick" bit in your router. Adjust the height until you produce a profile with a 1/16-in. fillet at the top. A shallower fillet would create a weak upper portion of the joint and a deeper fillet would locate the panel groove too far toward the back, creating a thin rear wall. Align the router-table fence precisely with the guide bearing on the bit. Attach featherboards to hold the stock against the table and fence when routing. If you're using a smaller router or a very hard wood such as oak or maple, you may need to take two passes to reach final depth. In that case, set up for a three-quarter-depth cut and rout all the stock before adjusting the fence for the

Bit types



Router bits for door frames are referred to in woodworking catalogs as "cope and stick" or "rail and stile" bits. Their function is to rout a profile and a panel groove on the inside edge of the frame parts and to cope the ends of the rails to fit that profiled edge. The bit style I use consists of



STACKED SINGLE BIT

a pair of matched bits (above). Another style of bit that is available is a stacked bit (left), in which the cutters necessary for each profile are included on a single bit. The stacked style does away with bit changing and may be more convenient for occasional use, but the two-bit style can be used with two dedicated routers for a better production setup. Both styles range from \$80 to \$150.

A less-expensive alternative is a reversible bit, with cutters that are reconfigured on a shaft for each cut. These sell for \$80 to \$100, but I don't think the savings is worth the inconvenience.

ADJUSTABLE BIT FOR PLYWOOD PANELS

Most bit sets cut a 1/4-in. groove in the stiles and rails. And that works fine for MDF panels, which are a true 1/4 in. Unfortunately, veneered plywood typically measures less than that and will leave an unsightly gap. One solution is an adjustable bit set, made by both Freud and Amana. These feature a pair of stacked cutters that can be adjusted from 3/16 in. to 1/2 in. for 1/4-in.

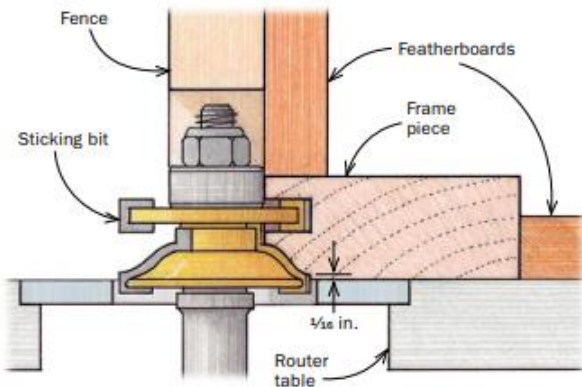
plywood by installing or removing shims. It took me about a half hour to set up the bits, but the resulting fit was precise. At \$160 to \$180, an adjustable set is worth it if you work with plywood.

ADJUSTABLE BIT SET



1 Rout the profile

Make the edge profiles first. Even before the frame pieces are cut to size, rout their edge profiles to accept the panel. Do this in one or two passes, using the sticking bit.



final pass. Removing the bulk of the waste on the first pass will yield a cleaner surface on the second.

Use a story stick for crosscutting

Once the edges have been profiled, it's time to cut all the parts to final length. Instead of a tape measure, I made a "story stick" to record the width and height of the case openings, along with the number of doors that fit in the opening. For cases with two doors, I measured the width and marked the halfway point.

I then used the story stick to set up the tablesaw for crosscutting. I started with the stiles, which run top to bottom in the case

opening. First I clamped a stop block to the rip fence in front of the blade, to prevent the stile from binding between the blade and the fence during cutting. Then it was simply a matter of aligning the mark on the story stick with the blade and setting the fence so that the stop block was flush with the end of the stick. Cut the stiles, making sure to mark the door number on each piece.

Cutting the rails to length is a bit trickier. Because they fit between the stiles, you must account not only for the width of the stiles but also the depth of the stub tenons. This can lead to some head-scratching, but I found a simple method that let me dispense with the math. First, make a setup block that is equal to the width of the two stiles minus the depth of the panel grooves. Use this setup block in conjunction with the story stick to quickly dial in

2 Cut the stiles

Put away your tape measure. Mark the door-frame length and width measurements on a thin "story stick." You'll transfer the marks directly to the tablesaw.



Clamp a stop block to the rip fence. Use the story stick to set the rip fence for crosscutting the stiles.

Photos, except where noted: Charlie Reina; drawings: Vince Babak

the right dimensions for the rails. Because rails are usually short, use a stop block clamped to the crosscut-sled fence to set the length. Again, align the mark on the story stick with the blade; then rest the setup block on the story stick flush with the end, and pencil a line on the sled to mark the end of the rail. Clamp the stop block at the line and cut the rails.

A sled for end-routing

With the parts cut to length, it's time to install the coping bit and profile the ends of the rails. Do not try to run these rails against the router-table fence without additional support; the pieces are too narrow to stay square against the fence. Instead, use a simple plywood sled fitted with hold-down clamps to run the stock squarely and safely across the bit. But before setting up the sled, cope the long edge of an extra piece of frame stock to make a special backing block. This piece will marry with the profiled edge of the rail stock and prevent tearout. When the other end of the rail is routed, the trailing edge will be flat, and a flat backer block will suffice.

After the backing block is made, clamp an offcut in the sled and take a test cut. Adjust the bit's height until the two pieces are flush and you're ready to cope the rails. Start with the flat edge against the sled fence and cope the first end. Then rotate the rail, insert the backing block into the panel groove, and cope the second end.

Make the panels undersize in width

With the frames complete, all that's left to do is to size the panels. I made them $\frac{1}{16}$ in. narrower than the length of the rails. This is to accommodate the slight amount of seasonal movement (yes, even MDF moves), and to make sure the panel allows the frame parts to seat fully during glue-up. The panels' length equals the stile length minus the setup-block length. The MDF I used fit very snugly into the panel groove, so I knocked the panels' corners off quickly with a



Cut all the stiles. Lead with the profiled edges to keep them free of chipout. A well-made crosscut sled keeps the cuts square.

3 Cut the rails

Cutting the rails requires an extra step. Start by cutting a block to the width of two rails minus the combined depth of their grooves. When you subtract this distance from the door width, you'll get the correct length of the rails.



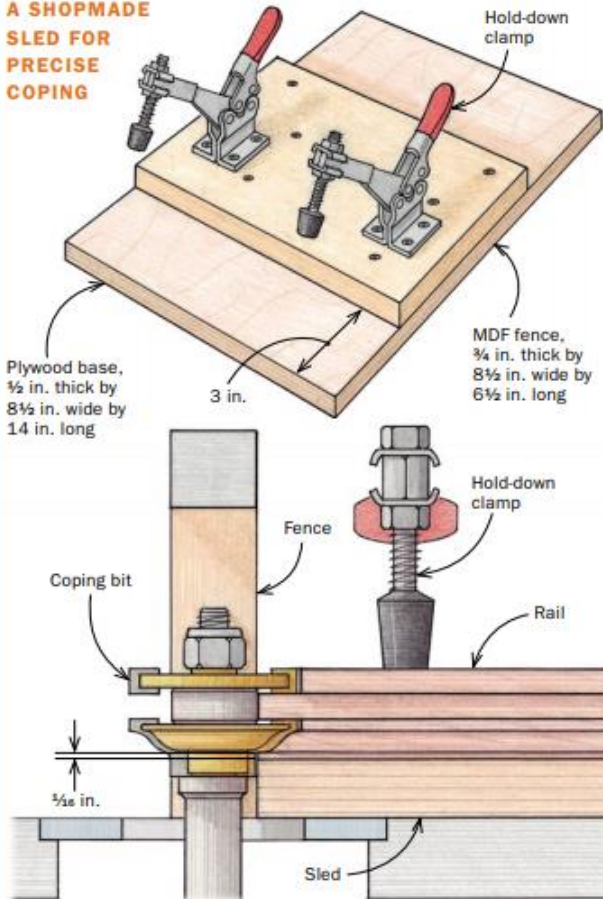
Use the block to set up the cut. With the story stick's door-width mark aligned with the sawblade, use the block to draw a line on the sled fence.



Cut the rails. With a stop block clamped at the line, you can cut all the rails to a precise and uniform length for a specific door size.

4 Cope the rails

A SHOPMADE SLED FOR PRECISE COPING



Profile the rail ends. Switch to the coping bit and use the sled to keep the rails square and secure for their end cuts. After making test cuts to ensure the faces will be flush (left), begin by coping the rail with the flat edge against the fence (above).



Back the profile with its mate. Before coping the opposite end, run a short length of scrap past the coping bit to make a backer block for the rail's profiled edge (above). With the backer block mated behind the piece, cope the second rail end (right).





Mark and glue one stile. After marking the location of the panel on one of the stiles, apply glue inside the entire length of the stile's groove. The panel will be glued to the stiles only.

block plane. (Unlike plywood, which is thinner than its nominal thickness, MDF measures out on the mark.)

How to keep it all square

Gluing up cope-and-stick doors is a challenge. One concern is that the stub tenons could slide along the panel groove, making it difficult to glue up the parts square. Or, the panel could fit so tight that it seizes up on contact with the glue, making it very difficult to square up the parts. Fortunately, this procedure eliminates both potential problems. I installed the panel in a stile groove first, then slid the rails on, and finally, added the second stile.

To position the panel correctly, mark its location on the stile by holding a rail in place and marking the width of its tenon. Apply glue along the panel grooves of the stiles only. Then apply glue to the coped ends of the rails. If there is glue in the rail grooves, they won't slide along the panel. Install the panel, making sure it's fully seated. Then push a rail onto the panel, fully seating it, and slide it down onto the stile. Install the second rail in the same manner, using the panel to align the rails parallel to each other and square to the stiles. All that's left is to install the last stile.

Once that's done, clamp along the entire joint. Be careful not to apply too much pressure across the panel, because it's slightly narrower than the rails, and the stiles could bow inward. Use a straightedge to make sure the stiles are flat with the rails. The short tenons provide little resistance against flexing upward. □

Michael Pekovich is Fine Woodworking's art director.

5 Assemble the panels



Placing the panel is key. Line up the panel precisely between the layout marks, and push it down to the groove bottom. This will keep the rest of the assembly square.



Attach the rails. After applying glue to the leading end of one rail, slide it down the panel edge and fit its stub tenon into place in the stile groove. Do the same with the second rail. Complete the assembly by gluing on the last stile.



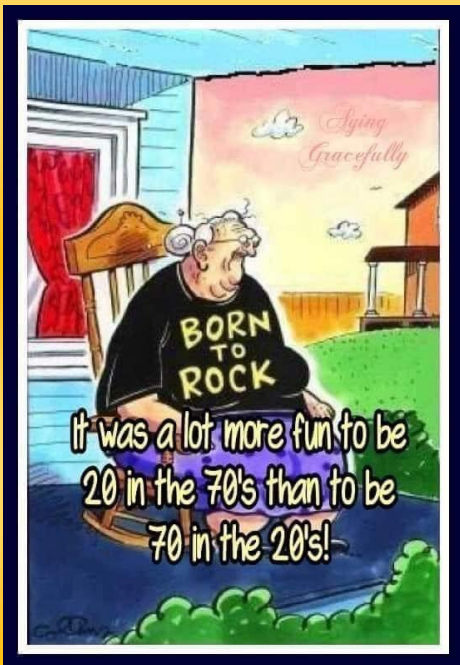
Check and clamp. Before tightening the clamps, use a straightedge to make sure the panel is flat in all directions. Adjust the clamps if necessary, and tighten.

Wordsearch – Workshop

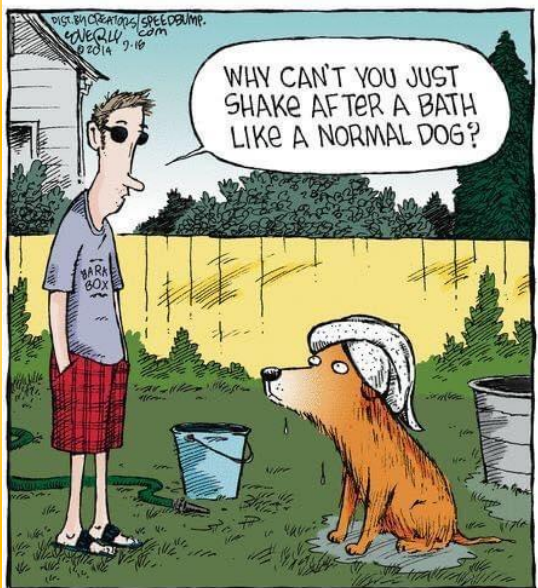
C	U	C	E	N	T	R	E	P	U	N	C	H	Q
B	E	N	C	H	W	M	I	L	L	E	R	V	S
A	O	D	U	C	K	B	O	A	R	D	E	I	A
G	L	U	E	G	U	N	L	A	T	H	E	C	W
K	O	V	E	N	X	R	J	C	O	P	P	E	R
O	N	P	T	W	P	L	A	N	E	S	D	L	Q
I	A	L	I	S	M	E	T	A	L	C	P	L	Z
L	I	I	X	B	L	O	W	T	O	R	C	H	R
C	L	E	F	M	S	W	A	R	F	E	P	X	R
A	S	R	D	R	I	L	L	K	L	W	B	G	A
N	E	S	H	A	M	M	E	R	S	S	R	R	G
S	N	N	H	O	T	P	L	A	T	E	A	I	S
C	E	N	T	R	E	D	R	I	L	L	S	P	H
J	X	A	P	R	O	N	V	S	F	Q	S	S	J

APRON	LATHE
BENCH	METAL
BLOWTORCH	MILLER
BRASS	NAILS
CENTREDRILL	OILCAN
CENTREPUNCH	OVEN
COPPER	PLANE
DRILL	PLIERS
DUCKBOARD	RAGS
GLUEGUN	SAW
GRIPS	SCREWS
HAMMER	SWARF
HOTPLATE	VICE

Humour



*It's OK To Talk To Yourself,
It's Even OK To Answer
Yourself, But When You Ask
Yourself To Repeat What You
Just Said, You
Have a Problem!!*



WHEN I WAS YOUNG, I WAS SCARED OF THE DARK...
NOW WHEN I SEE MY ELECTRIC BILL I AM SCARED OF THE LIGHT.

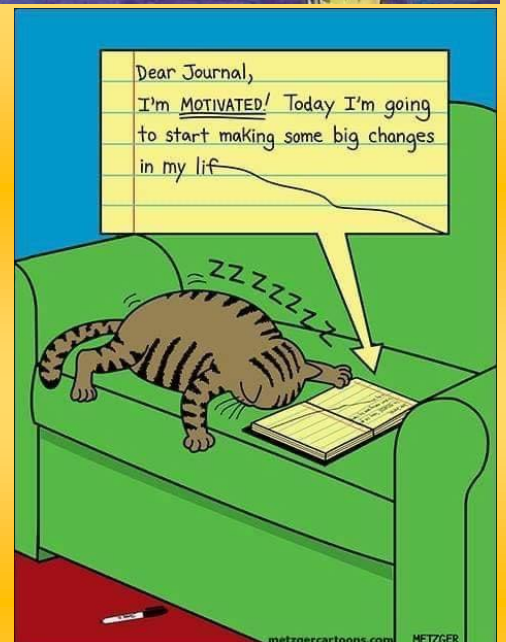
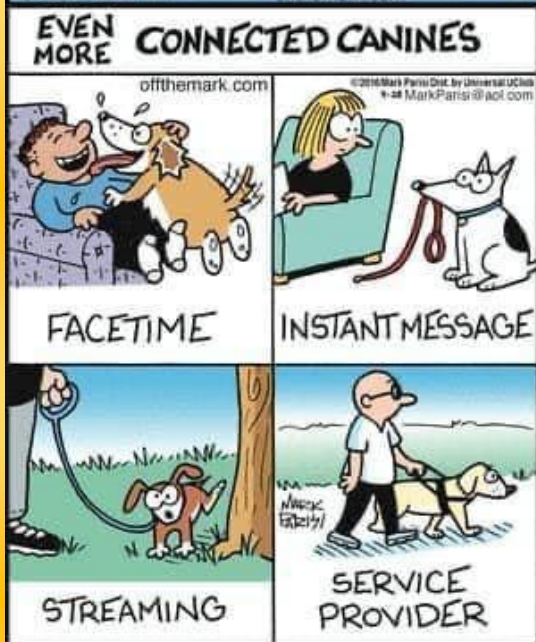
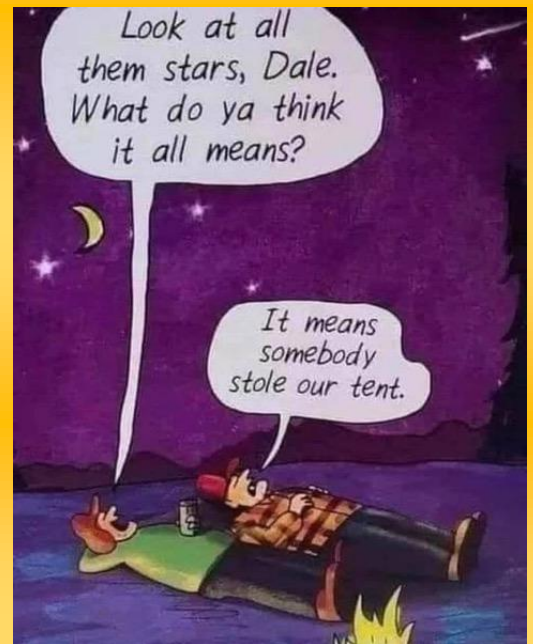
Humour

off the mark.com

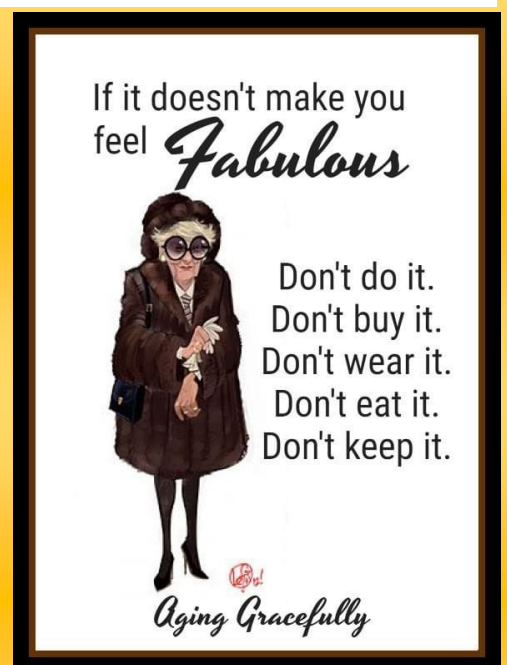
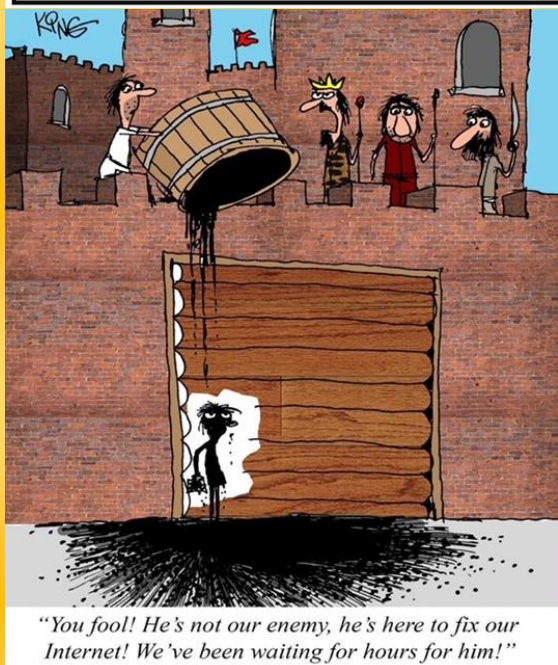
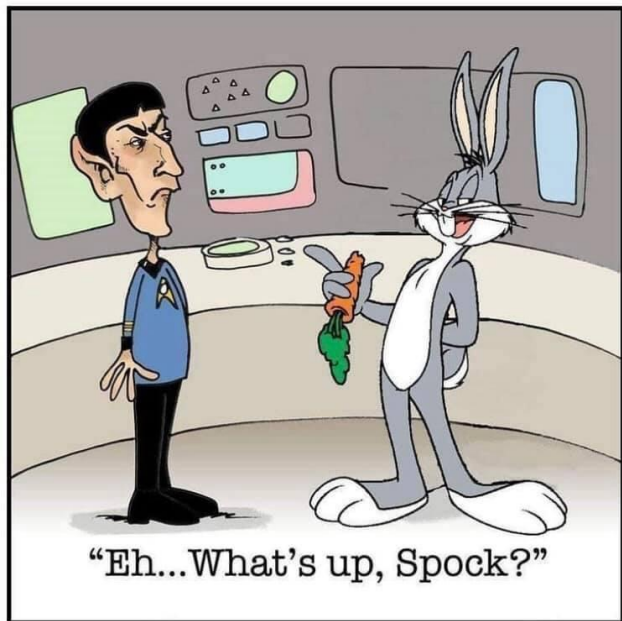
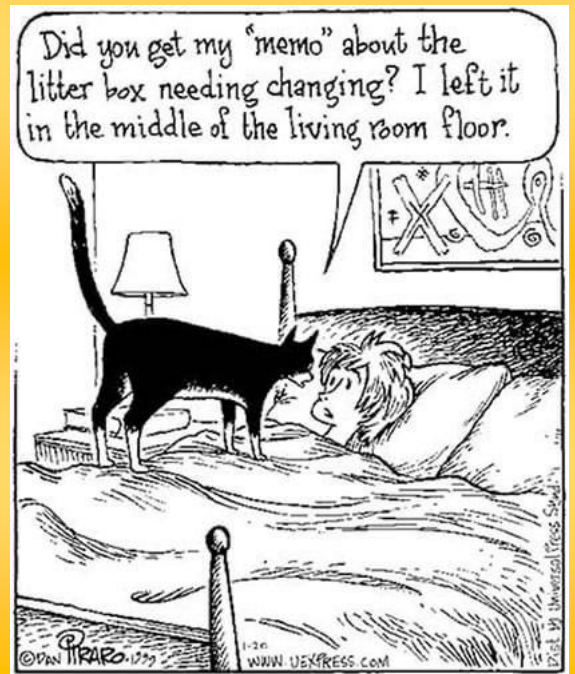
by Mark Parisi



Go, dog, go.



Humour



Latest Scams

Scams taking place on online retail websites are more common than we think, unfortunately. We've received multiple reports of a crafty scheme on Shpock, where 'buyers' attempt to trick sellers into handing over their bank details and transferring money directly.

[Here are some examples of how this has been attempted](#) as well as advice on staying safe when buying and selling online.

Avoiding scammers online

Five red flags that a loved one is being scammed

Scammers use every trick in the book to sound convincing and make their scams seem plausible. If one gets lucky - targeting the right person, in the right way, at the right time - anyone could fall victim to a scam. But these fraudsters regularly seek out older people because they're more likely to live alone, have savings or valuables and are more likely to talk to them.

Help your loved one stay one step ahead of the scammers. [Here's a short video about the red flags to look out for](#) that may suggest your friend or relative is being scammed.

Signs to look out for

There's now a much easier way to make us aware of scams directly with our [scam sharer tool](#). Tell us your experiences of phishing emails, fake texts, cold calls and other types of fraud.

Stay safe,

Which? scam alert team

PS Please share this information with your friends, family and neighbours - anyone who may find it helpful. Alternatively, they can [sign up here](#) to receive this directly to their inbox.

Answers to Puzzles

Solution for Crossword #17

1	S	T	E	P		5	S	L	I	T		9	M	A	S	S			
13	T	U	T	O	R		15	P	A	T	H		16	O	B	I	T		
17	U	N	C	L	E		18	A	S	S	O		19	C	I	A	T	E	
20	B	E	H	E	M		21	O	T	H		22	R	U	S	S	I	A	
						23	C	O	D	E		24	P	O	R	T	E	N	D
25	T	O	W	A	R	D				28	B	R	U	T	E				
29	S	K	I	T	S			30	S	L	A	G		31	N	A	P	E	
35	A	R	K			36	E	M	P	A	T	H	Y		39	B	U	S	
40	R	A	I	L			42	E	A	S	T		43	U	S	U	R	P	
						45	O	P	A	R	T		47	F	L	A	T	L	Y
48	R	E	D	W	I	N	E			51	B	E	E	N					
52	E	Y	E	L	E	T				53	F	I	E	L	D	D	A	Y	
57	A	R	M	A	D	I	L	L	O			59	O	B	A	M	A		
60	L	I	O	N			61	M	A	A	M		62	G	A	M	E	R	
63	M	E	N	D			64	E	D	G	E				65	R	E	N	D

C	U	C	E	N	T	R	E	P	U	N	C	H	Q
B	E	N	C	H	W	M	I	L	L	E	R	V	S
A	O	D	U	C	K	B	O	A	R	D	E	I	A
G	L	U	E	G	U	N	L	A	T	H	E	C	W
K	O	V	E	N	X	R	J	C	O	P	P	E	R
O	N	P	T	W	P	L	A	N	E	S	D	L	Q
I	A	L	I	S	M	E	T	A	L	C	P	L	Z
L	I	I	X	B	L	O	W	T	O	R	C	H	R
C	L	E	F	M	S	W	A	R	F	E	P	X	R
A	S	R	D	R	I	L	L	K	L	W	B	G	A
N	E	S	H	A	M	M	E	R	S	S	R	R	G
S	N	N	H	O	T	P	L	A	T	E	A	I	S
C	E	N	T	R	E	D	R	I	L	L	S	P	H
J	X	A	P	R	O	N	V	S	F	Q	S	S	J