

## 20:11 What clever things have you learned lately?

*from the desk of Pastor Manul Laphroaig,  
Tract Association of PoC||GTFO.*

Dearest neighbor,

Our scruffy little gang started this самиздат journal a few years back because we didn't much like the academic ones, but also because we wanted to learn new tricks for reverse engineering. We wanted to publish the methods that make exploits and polyglots possible, so that folks could learn from each other. Over the years, we've been blessed with the privilege of editing these tricks, of seeing them early, and of seeing them through to print.



**Studebaker**

**"Studebaker wagons  
certainly last a long time"**

"I have had this wagon twenty-two years, and during that time it cost me only \$6.00 for repairs, and that was for setting two tires."

"And after twenty-two years of daily use in good and bad weather and over all kinds of roads, I will put this wagon against any *new* wagon of another make that you can buy today."

"Studebaker wagons are built of air-dried lumber and tested iron and steel. Even the paint and varnish are subjected to a laboratory test to insure wearing qualities."

"No wagon made is subjected to as many tests or is more carefully made than a Studebaker. You can buy them of Studebaker dealers everywhere."

"Don't listen to the dealer who wants to sell you a cheap wagon, represented to be 'just as good' as a Studebaker."

Farm wagons, trucks, dump wagons and carts, delivery wagons, buggies, surreys, depot wagons—and harness of all kinds of the same high standard as the Studebaker vehicles.

*See our Dealer or write us.*

**STUDEBAKER** South Bend, Ind.  
NEW YORK CHICAGO DALLAS KANSAS CITY DENVER  
MINNEAPOLIS SALT LAKE CITY SAN FRANCISCO PORTLAND, ORE.

So today, in that spirit of exploration and wonder, I pass around the collection plate and ask you, not for paper money or pocket change, but for explanations of nifty projects and the clever tricks that make them possible.

Teach me how to dump and reverse engineer the firmware from my credit card, or how to make a file that is at once a thousand different formats. Show me how to program the SuperFX coprocessor from StarFox, or how to design an adapter that makes the cartridge compatible with a Game Genie.

Give me source code for the software, and give me schematics for the hardware, but most of all teach me how to build these things myself. Teach me to know the difference between those things that are really hard, and those things that only look intimidating before a bit of practice and the right advice collapse the problem into something a clever child might solve.

Give me these tricks and techniques in an ASCII textfile, or UTF-8 if your language insists, and include high resolution figures as separate PNG or PDF files as an email to [pastor@phrack.org](mailto:pastor@phrack.org). My gang and I will clean it up, typeset it in  $\text{T}_{\text{E}}\text{X}$ , index it and print it for the world. We'll happily translate from French, Spanish, Portuguese, German, Russian, Hungarian, Hebrew, Serbo-Croatian, and Southern Appalachian.

Yours in PoC and Pwnage,  
Pastor Manul Laphroaig, T.G. S.B.