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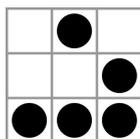[Tutorials

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Welcome on my personal Wiki!

This website was created to organize and share my experiments and materials, but it is also my creative space, which I treat as a drawer for my ideas. For many years, I had a problem with organizing all the materials I had managed to create. I searched for a long time for a simple "Wiki"-style system that would be easy to use and did not use a database. I chose the DokuWiki package, which I think is perfect for a small personal wiki. On this Wiki, you can find my studies and works that I created for the purposes of my current job, for myself to document something I managed to do, or for the university when I was a student. You will also find recordings of my training courses here. You can also see programs, scripts, and technical advice useful for admin work. You will also find some interesting facts from the world of physics and mathematics. I like to see the visual effect of something I have created, which is why most of my work contains descriptions, graphical user interfaces, large colorful charts, code usually has comments, and the results of programs are presented graphically.

I work on this wiki in my spare time, so I sometimes post something here with the thought, "I'll finish this later." Please treat this wiki as a drawer where I throw whatever interests me at the moment. The projects and solutions published here are published under free open source licenses without any guarantees as to their implementation, so please do not treat what you read here as something professional, but rather as something someone did in their spare time.

Hacker community

Source: Hackaday

[GNU FDL](GNU FDL)

I am surprised that despite all the efforts of hackers, many people still do not understand the difference between a cracker and a hacker. For me, hacking is a clever and useful solution to a problem related to computer science, and it should not have a negative connotation for anyone. In Poland, there are many hackerspaces that bring together everyone involved in this field.
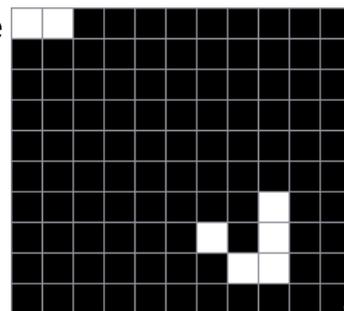
Hacker culture is guided by values such as:

> * **Freedom of information** - knowledge should be accessible to everyone; I am not in favor of hiding knowledge behind paywalls or other mechanisms that exclude others. That is why the materials on this wiki are published under the [GNU FDL](GNU FDL) license.

source: dinesh-GDK/Game-Of-Life

Logo itself is really a glider from Conway's Game of Life

- **Share knowledge** - hackers love to talk about their projects and share them, which is why I created this wiki.
- **Don't trust authority** - decentralization.
- **Judge by skill** - what matters is what you can do.
- **The Art of Code** - programming and technology are not only science, but also a form of creativity and expression.
- **Technology changes lives for the better** - don't be afraid of new technologies, check, test, and experiment.
- **Break the system, but don't cause harm** - "hacking" is not cracking; it's not necessarily about destroying and breaking security measures, it's about exploring and improving them (White hat).
- Have fun and be curious about technology.

The wiki you are currently reading was created with precisely this in mind. The materials published here are not intended to enable anyone to hack into certain systems or steal software, but rather to raise awareness and teach how certain security measures and technologies work so that they can be properly implemented or experimented with.

Who am I?

I am IT engineer that is a nerdy passionate about stuff that he does. More info on my home page: 🏠 **ostrowski.net.pl**

What i am using

Type of software/program	Name	Why this?
Web browser	Firefox	Lightweight, habits, I use several profiles, etc. (maybe someday I'll write a blog post about some useful Firefox add-ons).

Type of software/program	Name	Why this?
Text editor and hex editor	Notepad++ (in the past) now it is mostly Jedit or xed (defualt editor in linux mint)	Lightweight and it has plugins for virtually anything
Binary debugger for windows	X64dbg	I don't have a huge preference towards, i know how to use it and that's why i am using it
IDE python	Spyder, IDLE but nowadays mostly Jupyter	Graphs, good jupyter's interactivity where i don't have jupyter i use spyder
IDE C++	Dev-CPP (nowaday i use CPP IDE very ocassionaly i just compile source in terminal)	I used it in highschool and i hate bloat in VisualStudio
Database	favorite SQLite, but frequently also MySQL	MySQL is very popular and well-documented. SQLite, on the other hand, is used because you don't always need a high level of scalability, and a lightweight, simple database like this is sufficient.
Office	OnlyOffice	Just got used to it
Diagrams	Visio at work, Draw.io at home	Visio because everyone uses it and I have a license, and draw.io because I integrate with Dokuwiki.
Electronics simulations	Tina-TI or falstad	A very easy-to-use program, and one of the few that allows for "live" simulation.
Operating System	PC Linux Mint, servers it depends	I am a supporter of free software, but it is not always possible to avoid using something else.
Cloud	Used to use OneDrive Now i use SyncThing	You can read here why i stopped using cloud in general
Terminal	MobaXterm (nowadays more Gnome Terminal)	I bought a license once, it integrates with WSL1 and 2, but I don't use it anymore.
Password manager	KeepassXC	I've had passwords in it for a long time now, and I like this program.
VPN and Hosting	Selfhost	Read more herej

Configuration of this wiki

The entire system is based on the open source DokuWiki package. I have many plugins installed, but the ones worth mentioning are: MathJax and Draw.io. DokuWiki integrates very well with these two packages, which allows me to conveniently format mathematical equations and create diagrams.

I also use this wiki as my personal notebook, which may explain the cloudflared tunnel security and retention backups.

If you want to use my mathjax and drawio installations, don't be shy, here are the links:
https://wiki.ostrowski.net.pl/drawio/
https://wiki.ostrowski.net.pl/mathjax/MathJax.js

PRead: How to change DokuWiki config so that it uses your own instances of Draw.io and Mathjax

Example use of mathjax:

$\lim_{K \to \infty} \frac{a \cdot \cos(\pi \cdot p)}{e^{r}} = \text{□}$

Przykład zastosowania draw.io:

diagram1.png

Inne wtyczki zainstalowane na tej Wiki:

- Add New Page plugin *2025-04-22* przez Damien Regad, Benjamin Santalucia, Sam Wilson and other contributors
  Adds a "new page form" to any wiki page.
- Blog *2023-10-24* przez Michael Hamann, Michael Klier, Gina Haeussge
  Use DokuWiki as blogging tool. (previous authors: Esther Brunner)
- Bureaucracy Plugin *2025-03-06* przez Andreas Gohr
  Create forms and generate pages or emails from them
- Button Plugin *2025-03-29* przez Remi Peyronnet
  Add button links syntax
- Changes Plugin *2023-12-14* przez Andreas Gohr
  List the most recent changes of the wiki
- color syntax plugin *2022-10-19* przez Harald Hanche-Olsen
  Write colored text in DokuWiki.
- Calendar PlugIn with CalDAV sharing support *2025-07-10* przez Andreas Boehler, Scott Lee Chua
  Create one calendar per page and share/subscribe via CalDAV
- Diagrams plugin *2025-10-15* przez Innovakom + CosmoCode
  Embed diagrams.net editor (formerly draw.io)
- dig plugin *2024-02-26* przez Andreas Gohr
  Query DNS for a list of domains
- Client Side Encryption Plugin *2024-05-01* przez Scott Moser, Maintainer Sherri Wheeler
  Client side cryptography enabling encrypting blocks of text within a wiki page.
- Dw2Pdf plugin *2023-11-25* przez Andreas Gohr and Luigi Micco
  DokuWiki to PDF converter
- Editor Plugin *2020-12-13* przez Gina Häußge, Michael Klier, Esther Brunner
  Displays a list of recently changed wiki pages by a given author
- Embedded PHP Plugin *2025-07-17* przez fiwswe
  Allows embedding PHP code on wiki pages
- Encrypted Passwords Plugin *2023-12-20* przez Andreas Gohr
  This plugin let you store 256 bit AES encrypted passwords in your DokuWiki pages. The password can be decrypted by clicking them (Javascript must be enabled).
- Gallery Plugin *2024-04-30* przez Andreas Gohr
  Creates a gallery of images from a namespace or RSS/ATOM feed
- htmlok plugin *2023-05-10* przez saggi, glen
  Allows embed HTML and PHP
- iframe plugin *2023-08-17* przez Christopher Smith
  Allows external URLs to be loaded into an iframe in your DokuWiki page.
- include plugin *2023-09-22* przez Michael Hamann, Gina Häussge, Christopher Smith, Michael Klier, Esther Brunner
  Functions to include another page in a wiki page
- Info Plugin *2020-06-04* przez Andreas Gohr
  Displays information about various DokuWiki internals

- MathJax plugin *2021-11-20* przez Mark Liffiton
  Enables MathJax (https://www.mathjax.org/) parsing of TeX math expressions in wiki pages
- networkgraph plugin *2025-10-02* przez Feralheart
  A plugin to visualize the link network of your wiki
- nosidebar plugin *2013-07-14* przez Matthias Schulte
  Disables DokuWikis internal sidebar for individual pages
- Note Plugin *2024-04-15* przez Anael Mobilia
  Add Note/Important/Tip/Warning Capability (DIV+CSS box)
- nspages plugin *2024-11-22* przez Guillaume Turri
  Presents a toc of the selected namespace using <nspages>
- Pageimage *2018-10-12* przez lisps, peterfromearth
  Functions to return image for given page
- Pagelist Plugin *2023-08-27* przez Matthias Schulte, Michael Hamann, Michael Klier, Gina Haeussge
  Lists pages in a nice formatted way
- Rack Elevation Plugin *2025-06-07* przez Tyler Bletsch
  Displays an elevation of a datacenter rack.
- simplenavi plugin *2025-04-03* przez Andreas Gohr
  Create a simple navigation tree based on namespaces
- slider plugin *2020-07-08* przez Andreas Gohr
  Add a slider element to any DokuWiki page
- Table Calculations Plugin *09-02-17* przez Gryaznov Sergey
  Enables Excel style formulas in table syntax
- Tag Plugin *2023-10-17* przez Michael Hamann, Gina Häussge, Christopher Smith, Michael Klier, Esther Brunner
  tag wiki pages
- ToDo *2024-05-10* przez Leo Eibler, Christian Marg, Markus Gschwendt, Robert Weinmeister
  Create a checkbox based todo list with optional user assignment (basic syntax: <todo>This is a ToDo</todo>). It can also be used as a lightweight task list management system.
- Translation Plugin *2025-05-20* przez Andreas Gohr
  Supports the easy setup of a multi-language wiki.
- Video Sharing Site Plugin *2025-02-21* przez Andreas Gohr
  Easily embed videos from various Video Sharing sites. Example: {{youtube>XXXXXX}}
- Wrap Plugin *2023-08-13* przez Anika Henke
  Universal plugin which combines functionalities of many other plugins. Wrap wiki text inside containers (divs or spans) and give them a class (choose from a variety of preset classes), a width and/or a language with its associated text direction.
- Yearbox Plugin *2021-03-19* przez Michael Große (formerly: Symon Bent)
  Builds a complete HTML calendar for the given year, with a link to create a new page for each day of the year. Existing pages will have a tooltip showing a preview of the page content.

Contact

If you want to contact me or have any questions, please visit the contact page.

This wiki is constantly being developed and updated. Feel free to explore!