




# VIII SEMANA DA COMPUTAÇÃO E TECNOLOGIA



# Execução de Código Debaixo dos Panos

Wanderley Caloni



# Caloni: definição

```
auto caloni = 0; ///@todo dunno
```



## **Wanderley Caloni**

*Dev CCPP, Microsoft MVP  
and Personal CCF  
(Capitalista que Curte  
Filmes).*

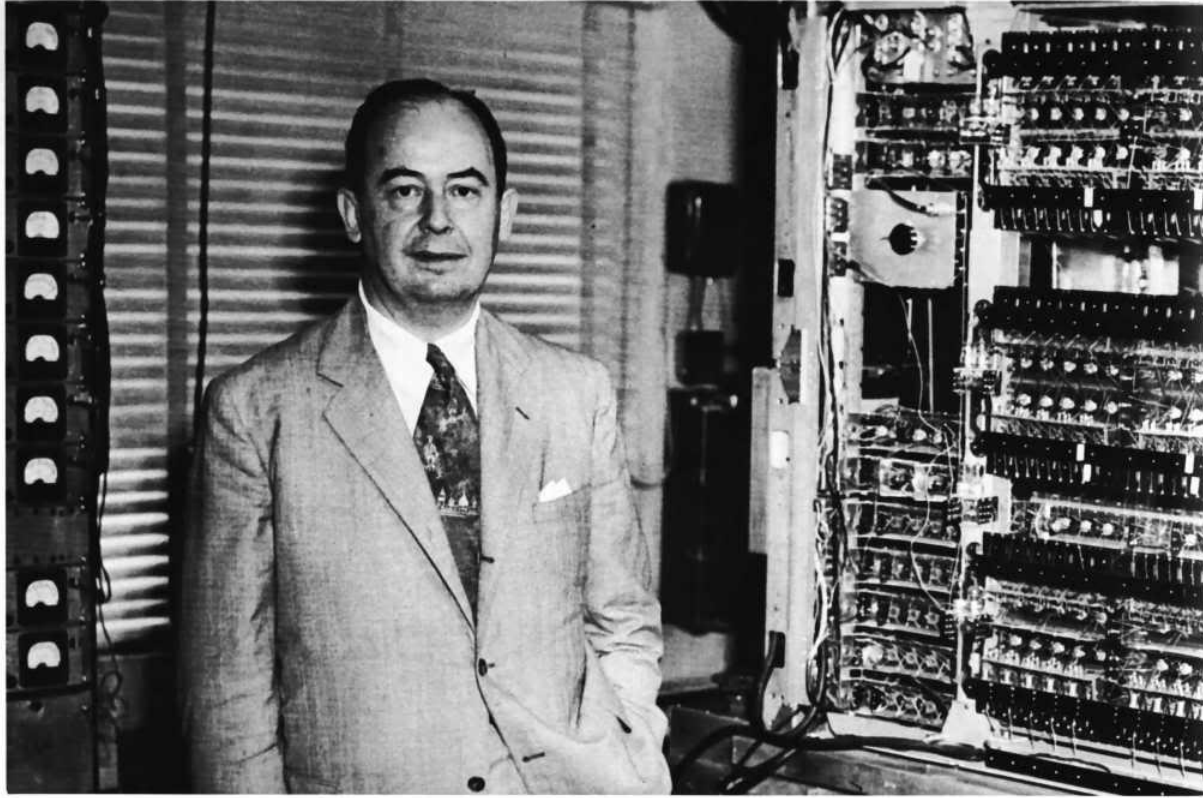
Fonte: [www.caloni.com.br](http://www.caloni.com.br)





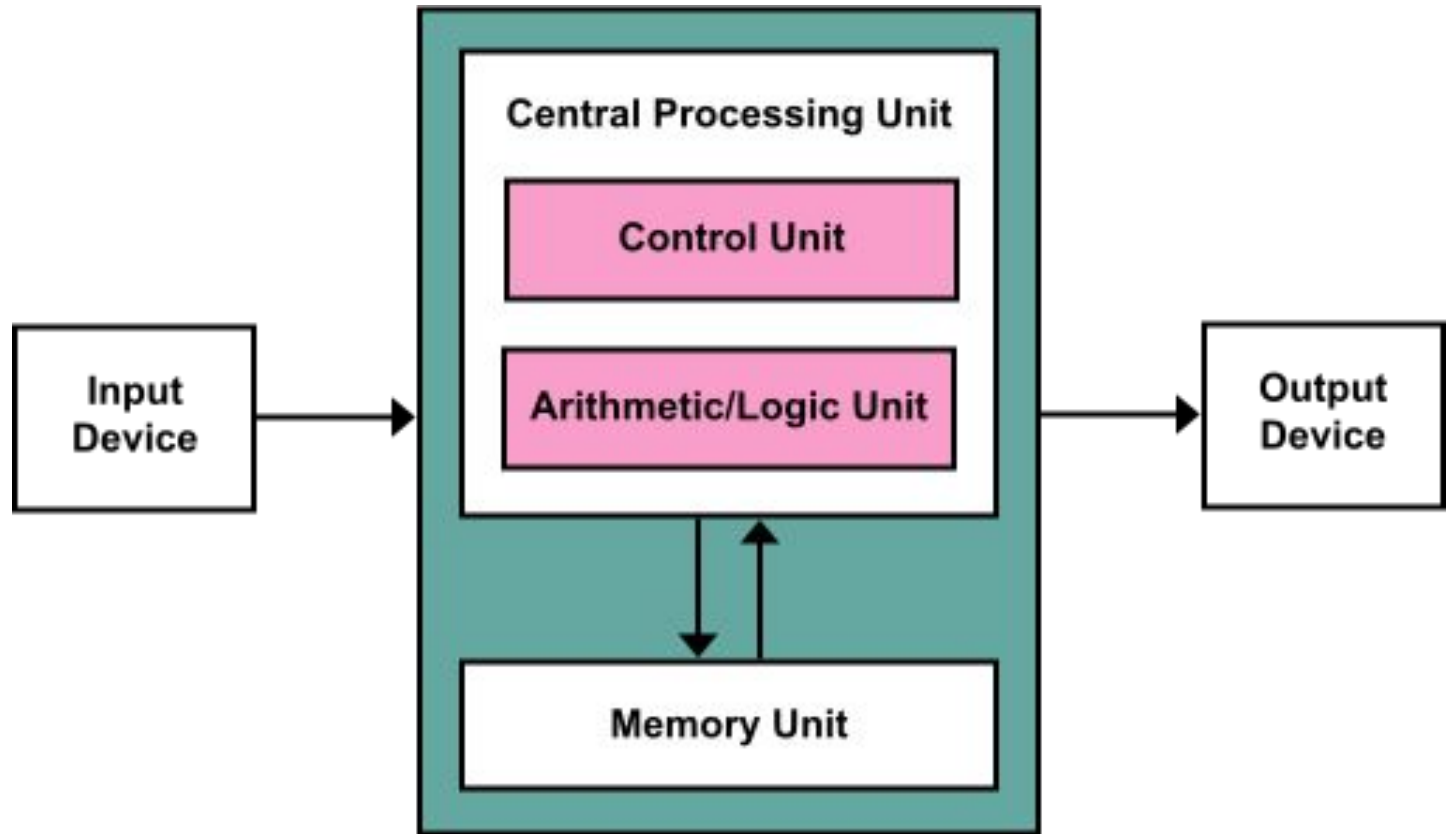
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John... Von Neunmman... Newman... Neo!



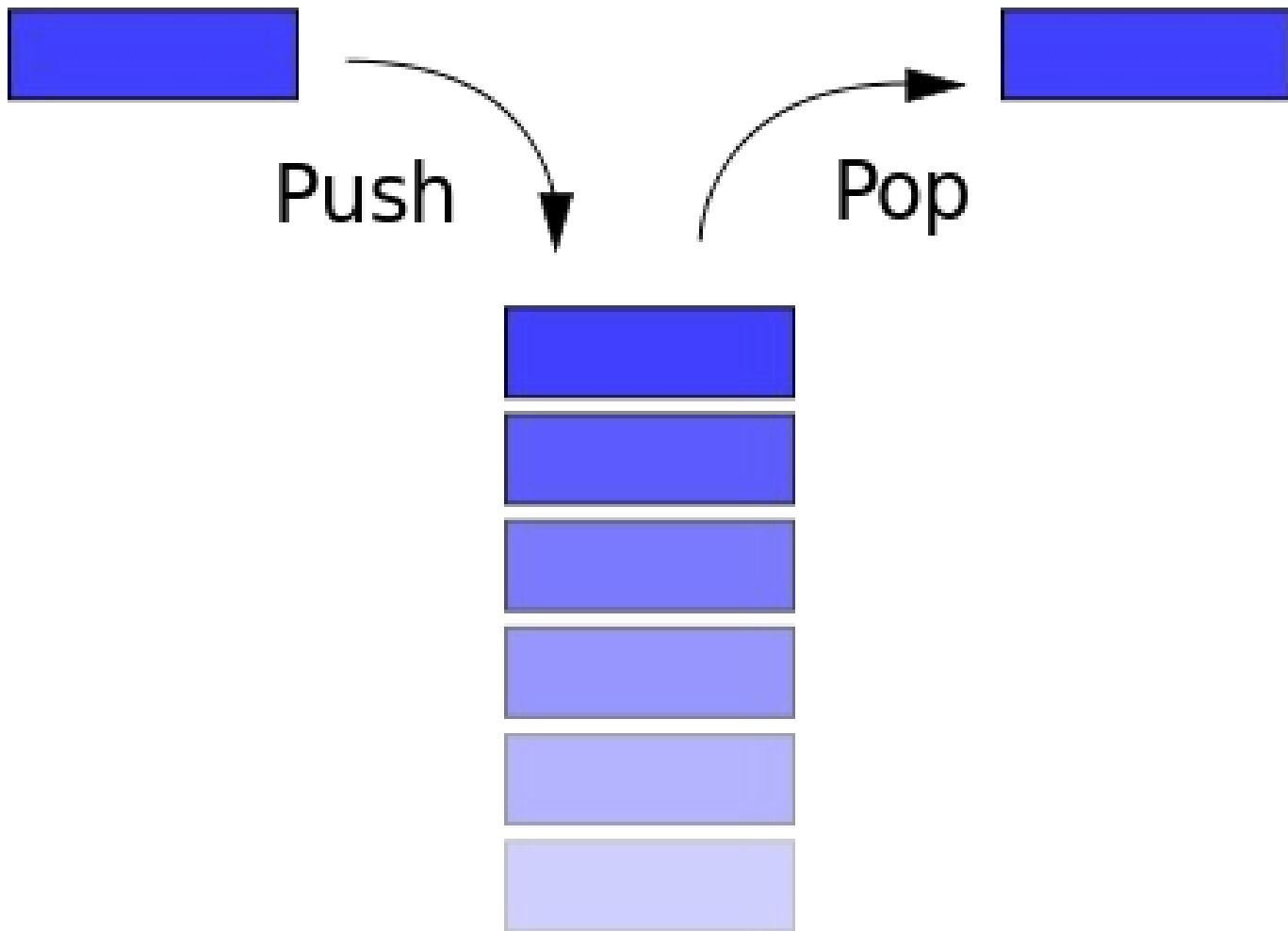


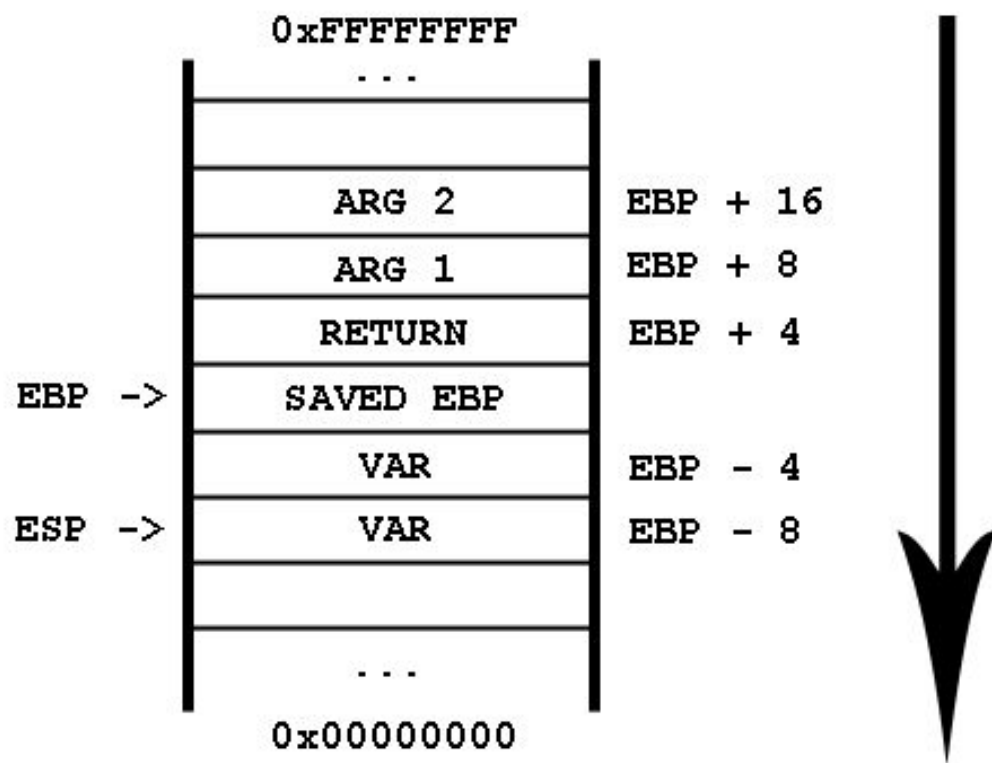
Neumann Architecture (a.k.a. The Matrix)

## Self-modifying code [\[ edit \]](#)

Aside from the von Neumann bottleneck, program modifications can be quite **harmful**, either by accident or design. In some simple stored-program computer designs, a malfunctioning program can damage itself, other programs, or the [operating system](#), possibly leading to a [computer crash](#). [Memory protection](#) and other forms of [access control](#) can usually protect against both accidental and malicious program modification.

Neumann Architecture (a.k.a. The Matrix)





Stack x86

```
int Sum(int arg1, int arg2)
{
    int var = arg1 + arg2;
    return var;
}
```

00CA1710	mov	ecx,dword ptr [var1]
00CA1713	push	ecx
00CA1714	call	Sum (0CA106Eh)
00CA1719	add	esp,8
00CA171C	mov	dword ptr [res],eax

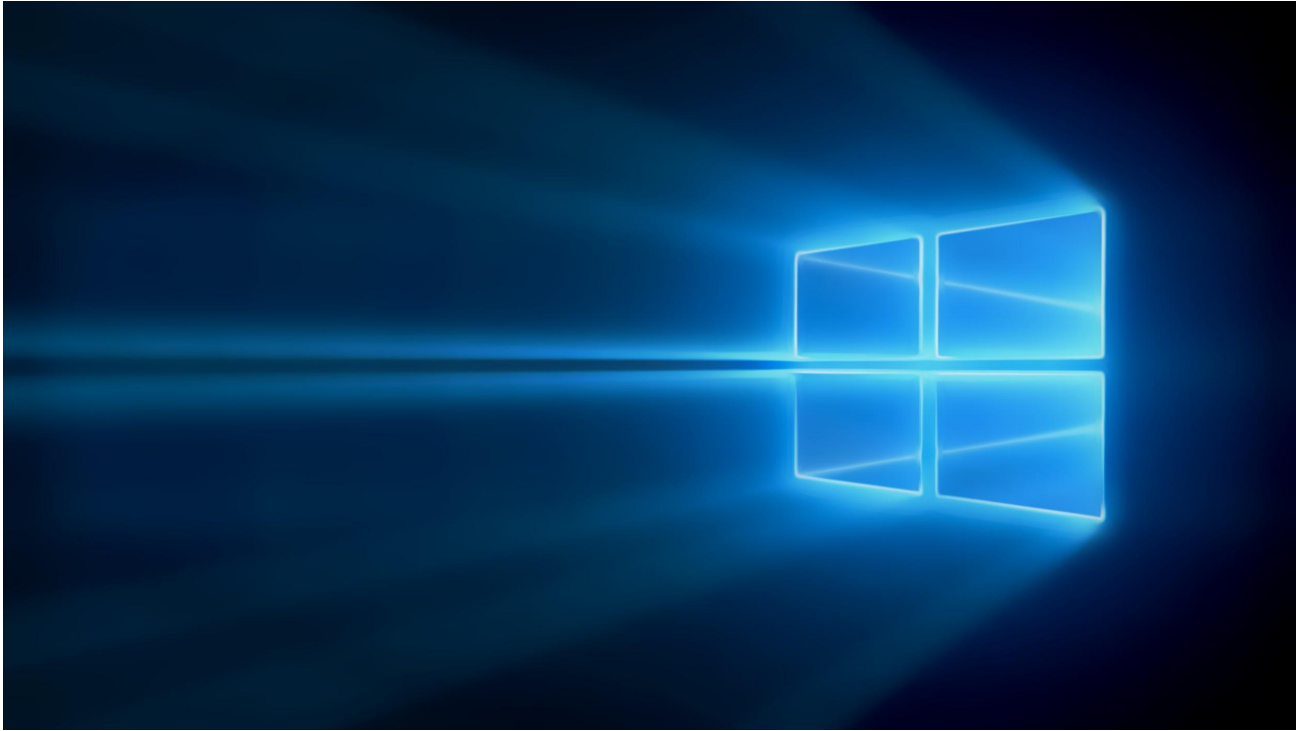
097F94C

4C	0097fa4c	00ca1719	00000002	Lú-...Ê.....
58	00000003	00ca1046	00ca1046	....F.Ê.F.Ê.
64	7f64f000	cccccccc	cccccccc	.ød.ïïïïïïïï
70	cccccccc	cccccccc	cccccccc	ïïïïïïïïïïïï

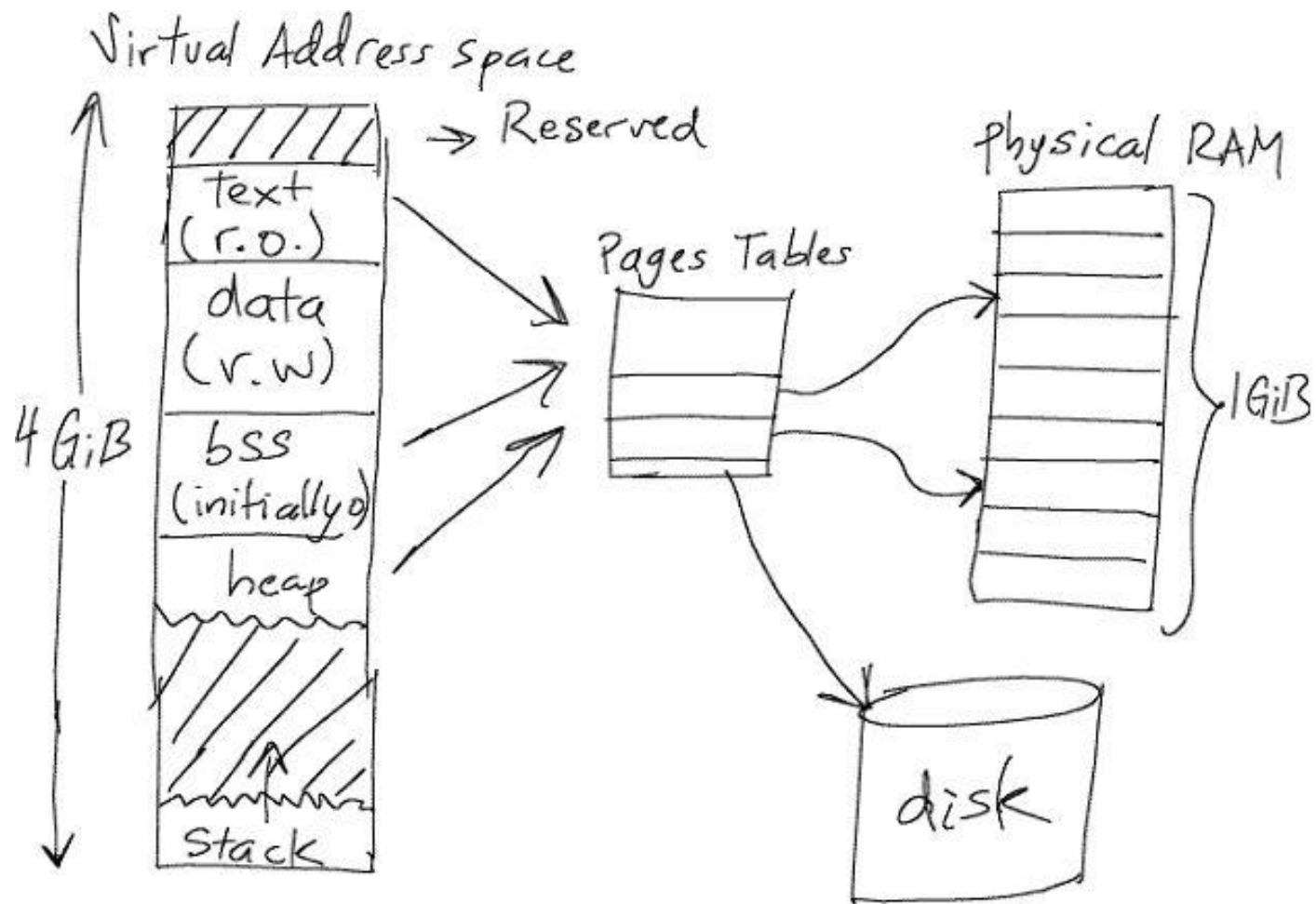
Stack x86



Is for dummies only



Talking about dummies...





# Partes obscuras

Favor ler readme.md do projeto no GitHub [1]

[1] <https://github.com/Caloni/StackOverflow>

File Options View Process Find DLL Users Help

Process	CPU	Private
Ditto.exe	< 0.01	5,000
AutoHotkey.exe		1,000
Miranda64.exe	0.01	7,000
Telegram.exe	< 0.01	49,000
cmd.exe		1,000
conhost.exe		16,000
devenv.exe	0.45	398,000
Microsoft.Alm.Shared.Remoting.RemoteContainer.dll		

Base	Name	Description	Company
0x1C3C0000	cversions.2.db		
0x1CCB0000	cversions.2.db		
0x1CCD0000	cversions.2.db		
0x6A800000	d2d1.dll	Microsoft D2D Library	Microsoft C
0x6A5E0000	d3d11.dll	Direct3D 11 Runtime	Microsoft C
0x65730000	d3d9.dll	Direct3D 9 Runtime	Microsoft C

CPU Usage: 2.65% Commit Charge: 39.27% Processes: 114 Physical Usage: 41.92%



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