




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).*

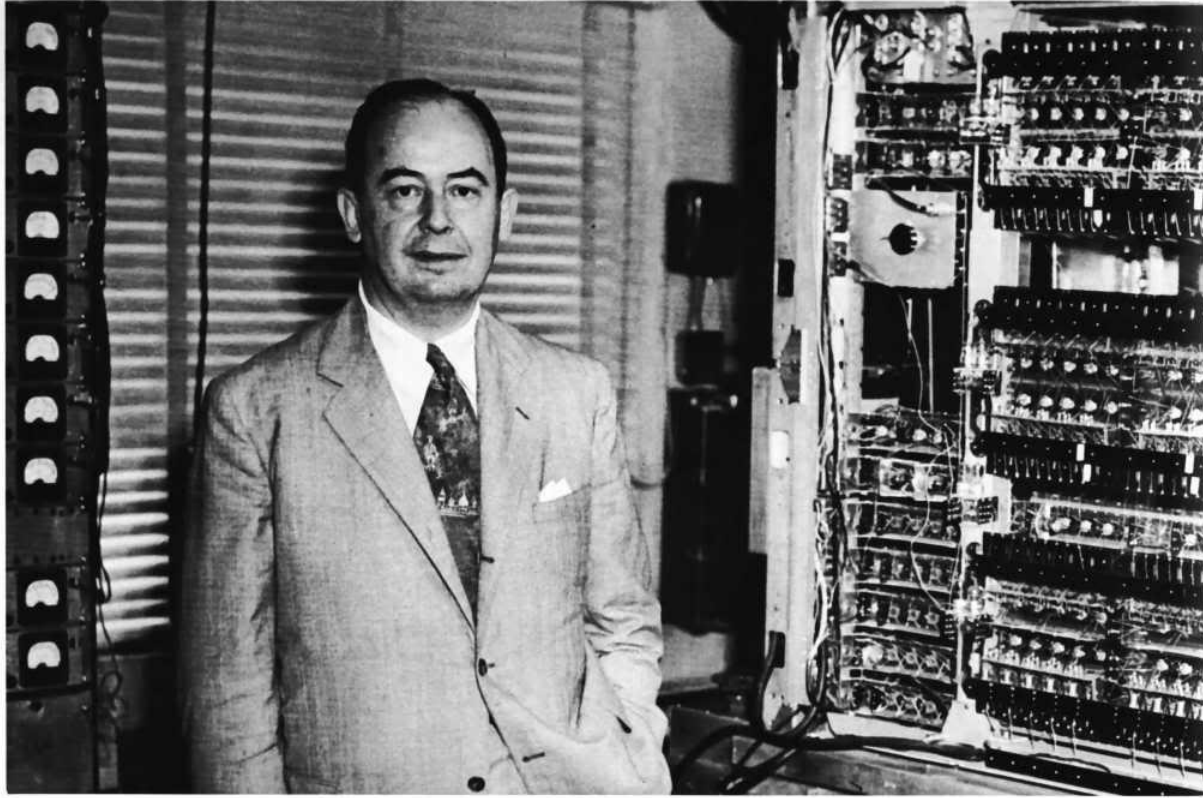
Fonte: www.caloni.com.br



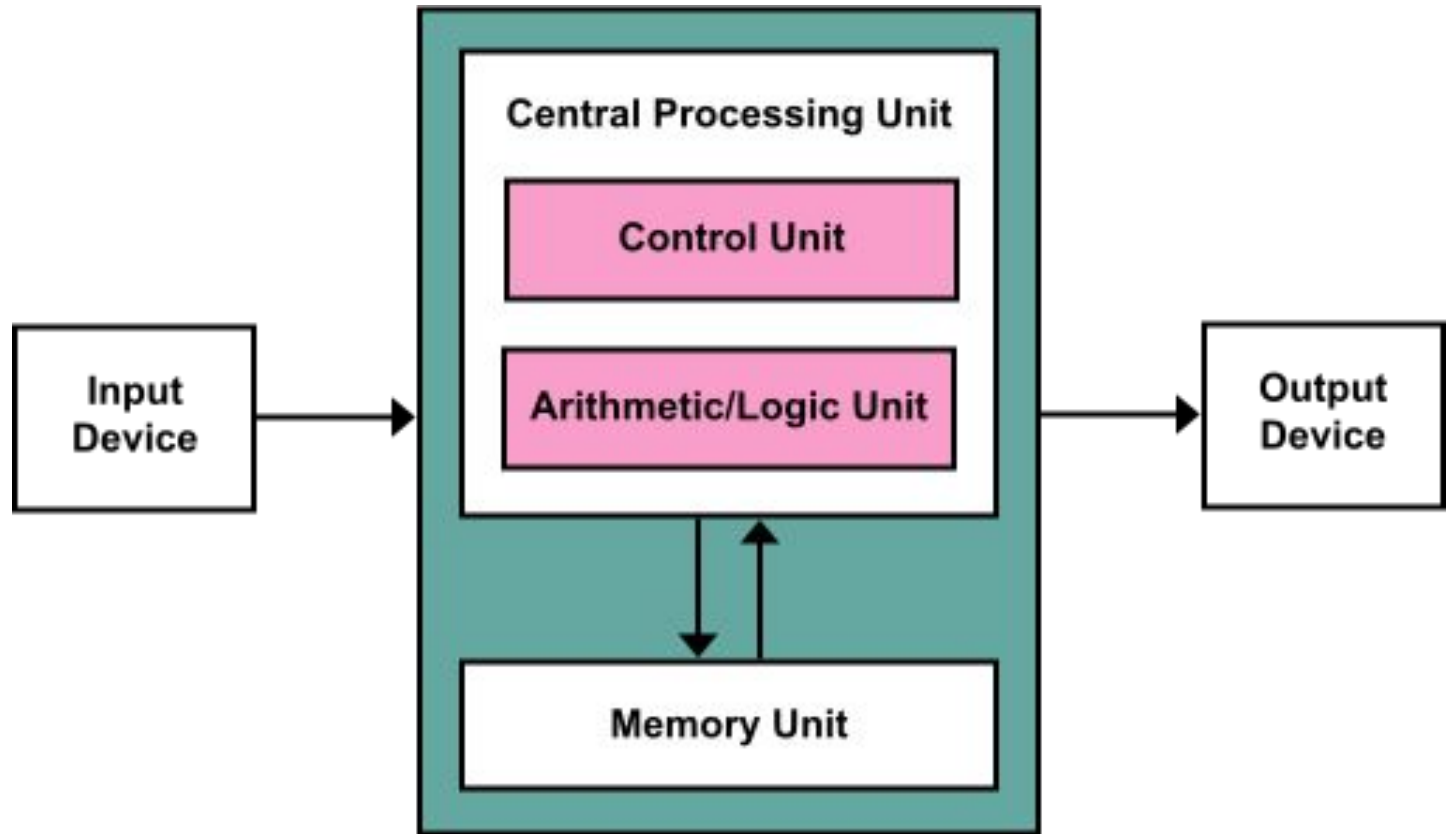


B1TFØRGE





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

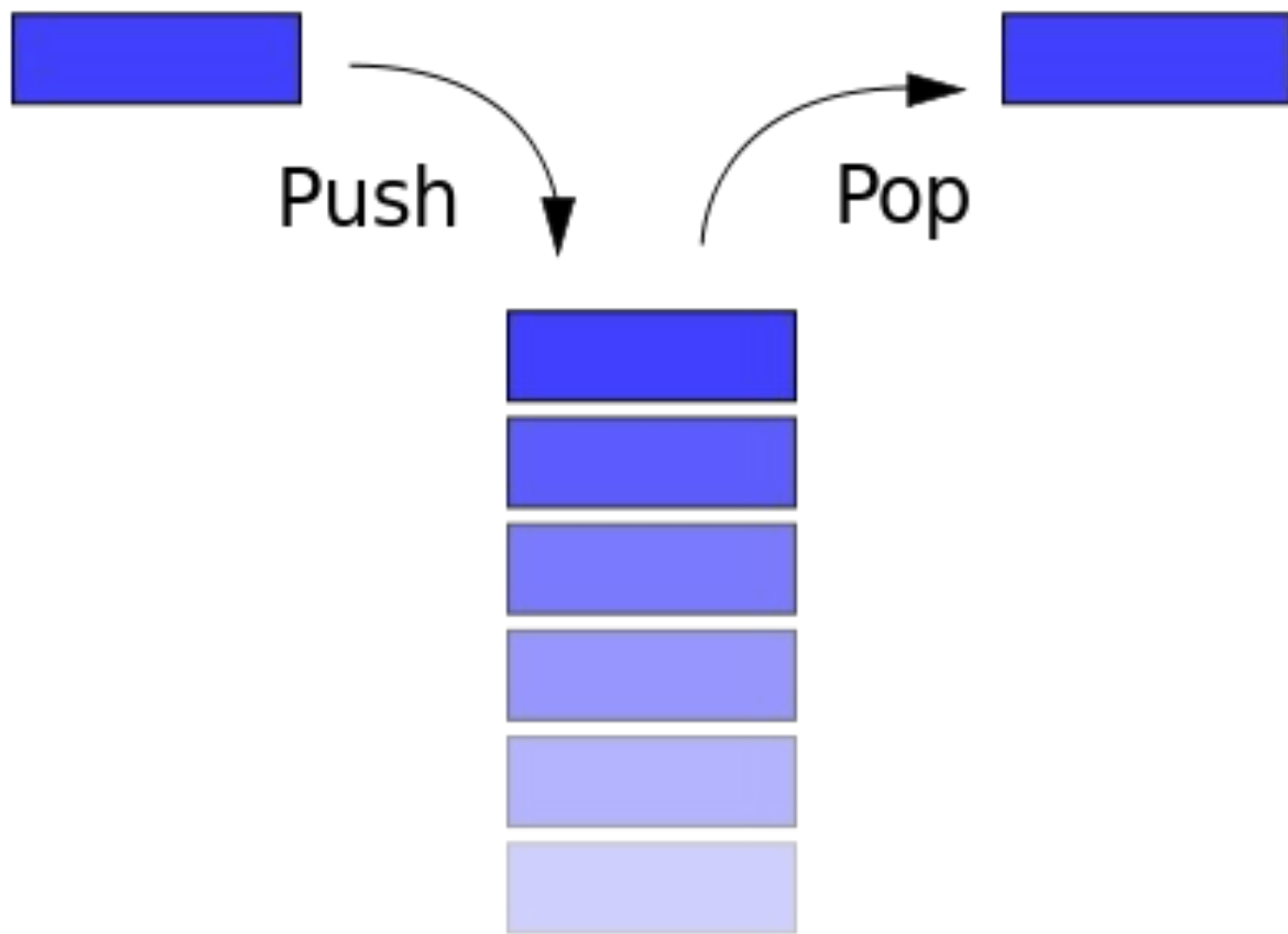


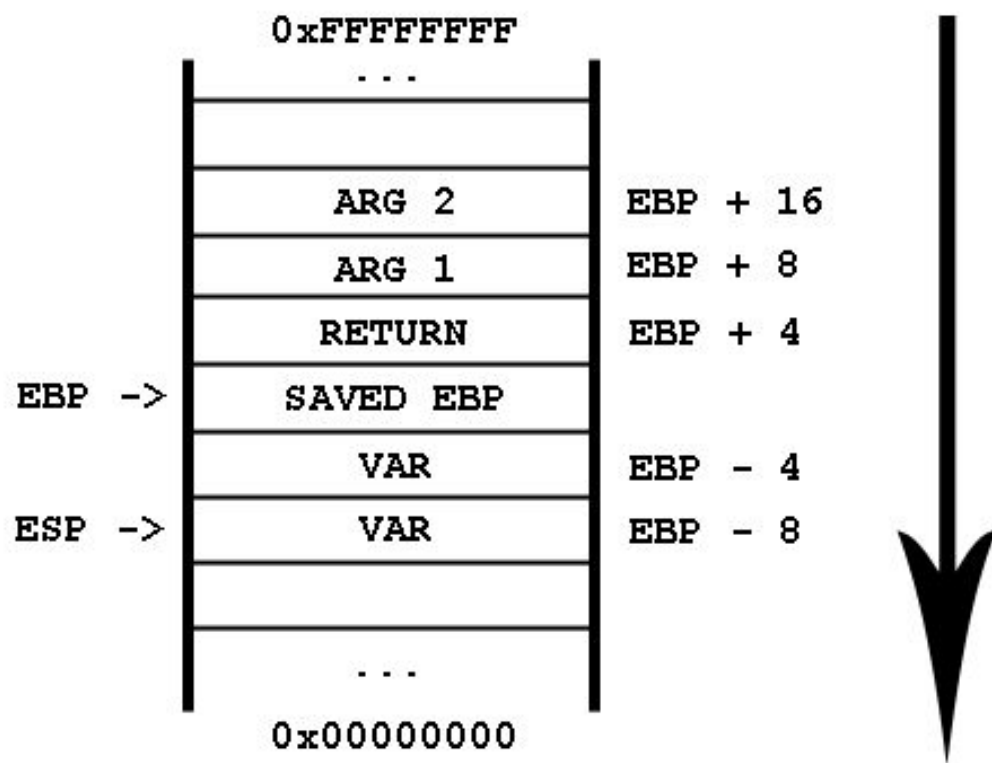
Neumann Architecture (a.k.a. The Matrix)

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
```

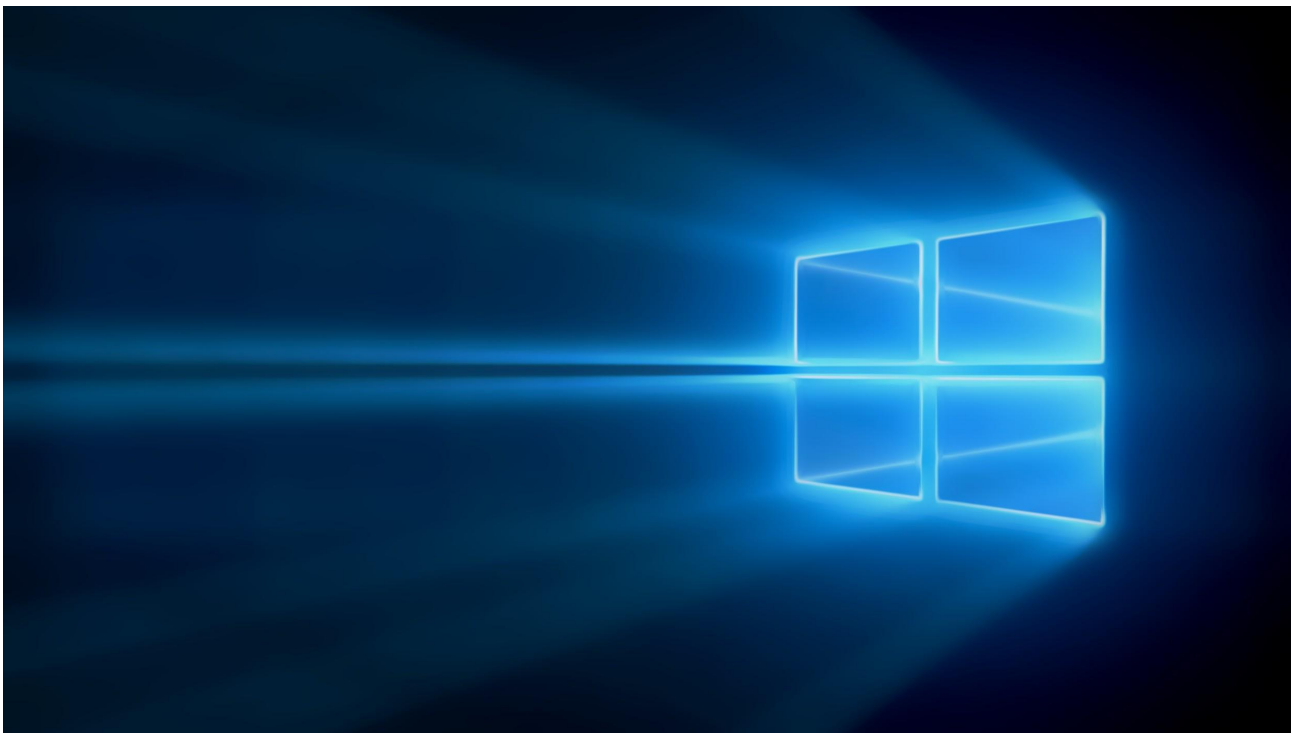


```
097F94C
4C 0097fa4c 00ca1719 00000002  Lú-...Ê.....
58 00000003 00ca1046 00ca1046  ....F.Ê.F.Ê.
64 7f64f000 cccccccc cccccccc  .ðd.ìììììììì
70 cccccccc cccccccc cccccccc  ìììììììììììì
```

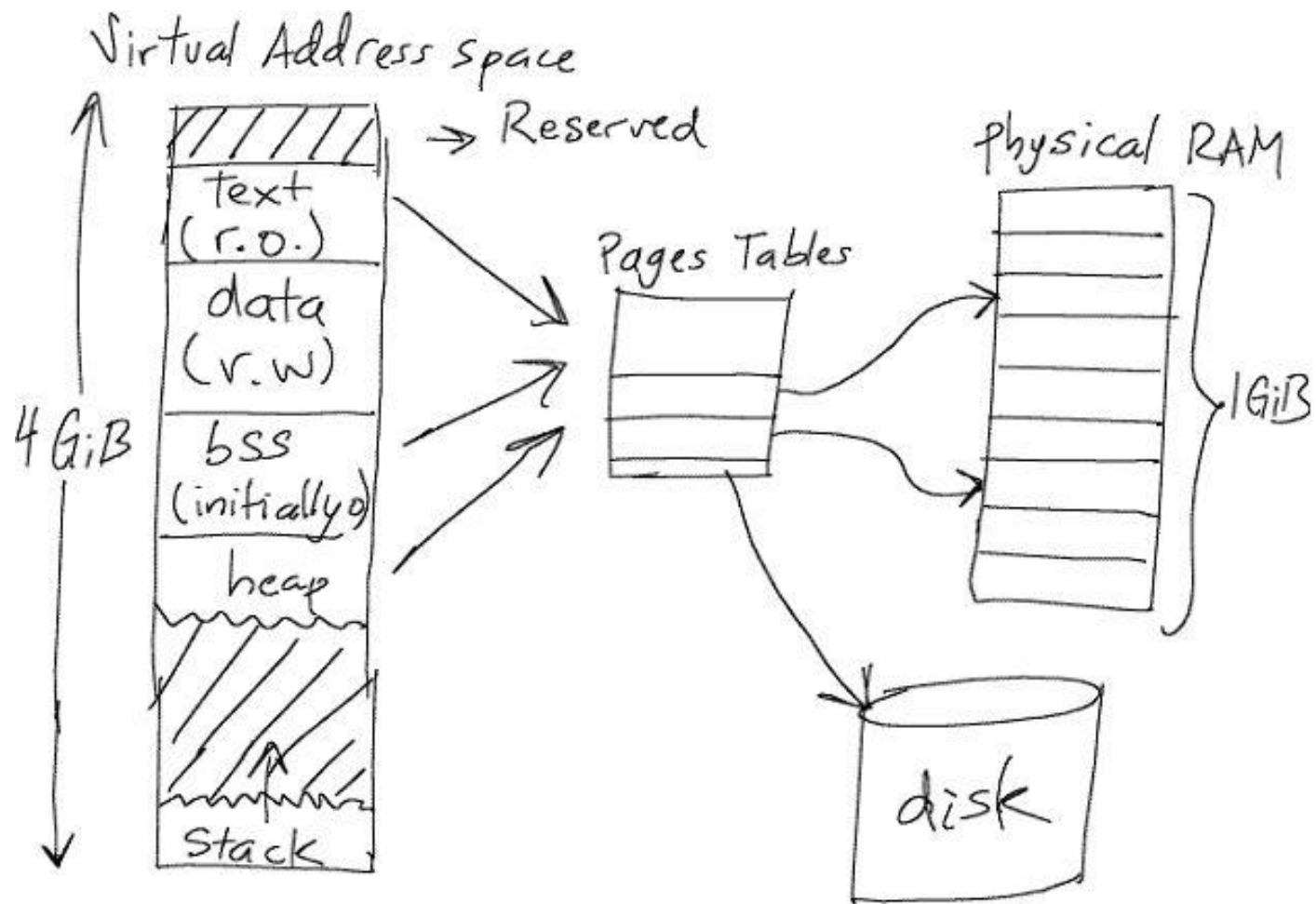
Stack x86



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%



B1TFØRGE