



CONFLOSS

Estamos todos abertos a área da saúde:

Daniele Nazaré ;-D



Tecnologias Open Souce VS. Medicina



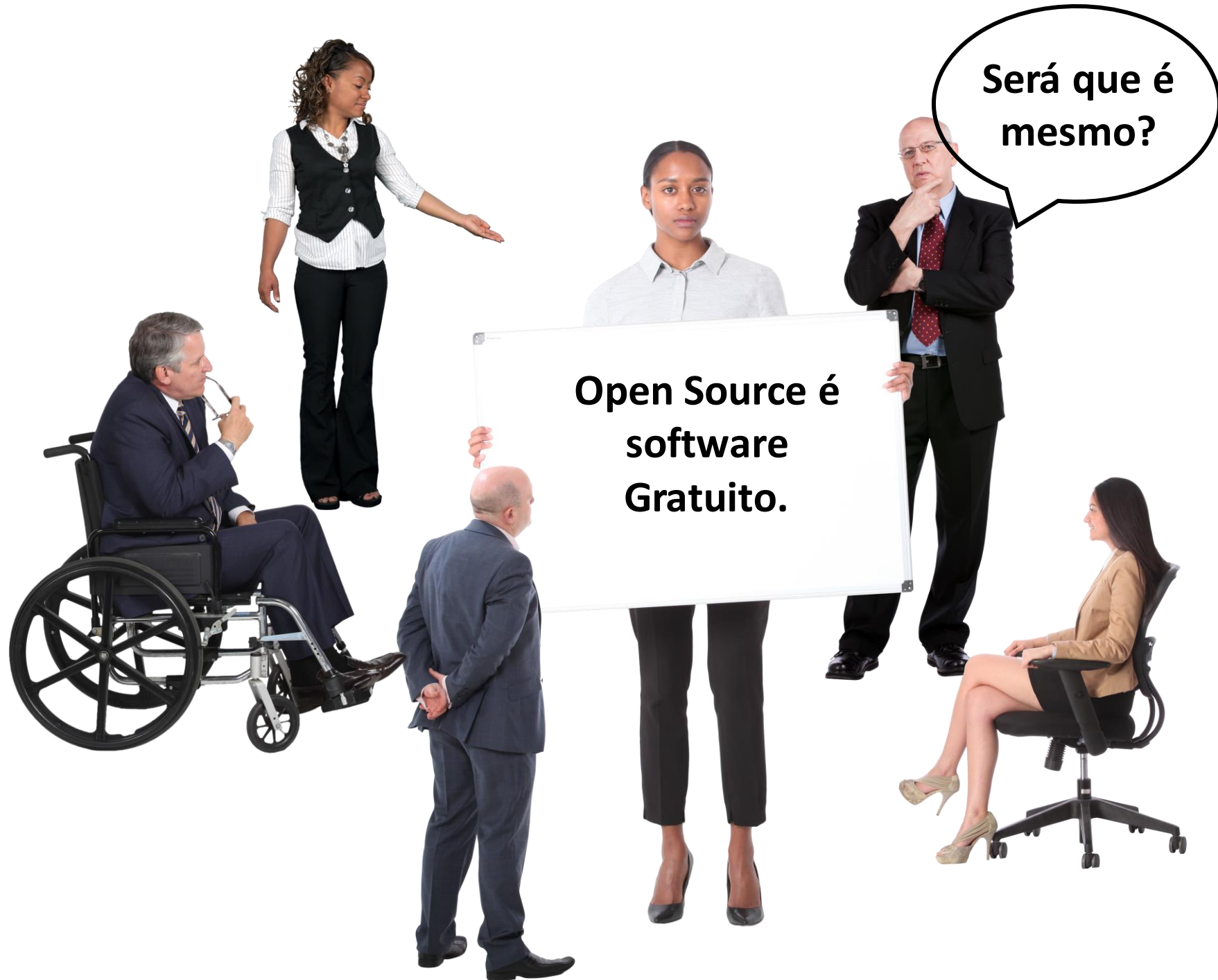
Sou Bacharel em Engenharia de Computação e contribuo para a comunidade de desenvolvedores ministrando palestra em eventos. Sendo assim tive a oportunidade de palestrar na 9ª semana de SI da USP, Cryptorave, ABCdev, QA-Ladies, TDC, Brazil JS On the Road, Python Brazil 2019. Além disso faço parte do projeto de Computação Quântica, The Quantum Blockchain Project.

- <https://br.linkedin.com/in/danielenazare>
- <https://github.com/danynt14>

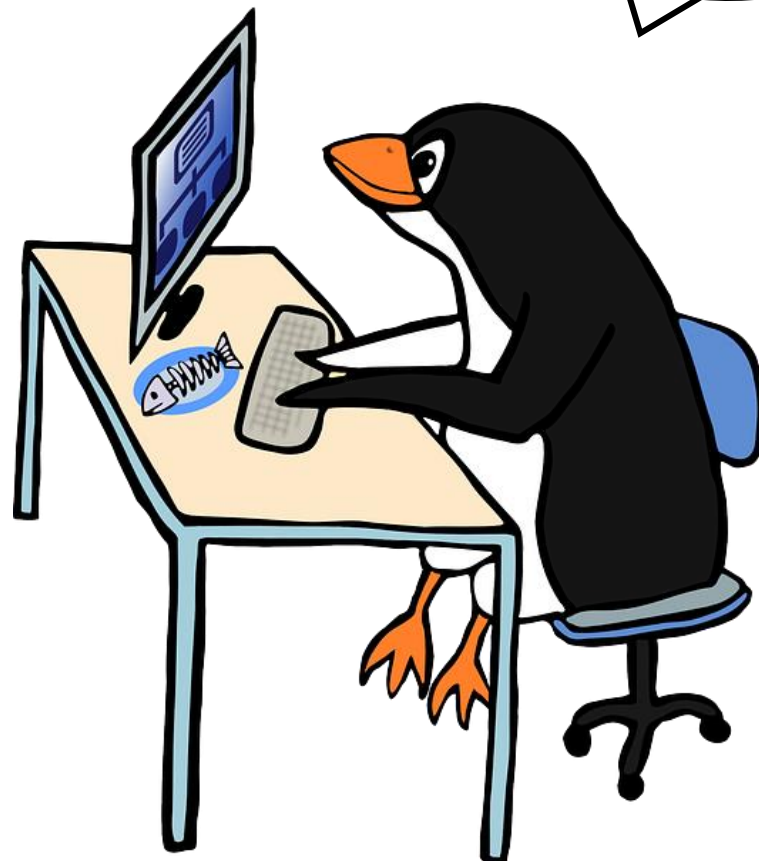


Segura que
lá vem o
IntroPeão!

Senso Comum







PB 560 Ventilator: Ventilador Pulmonar Open-Source[1]

"Por que a empresa de tecnologia médica Medtronic abriu o código deste projeto?"



PB 560 Ventilator:

Ventilador Pulmonar Open-Source[1]

- ☐ Evitar
 - ☐ burocracia
 - ☐ Transporte
 - ☐ Regulamentos Alfandegários
 - ☐ Refulamentos Fiscais
- ☐ Dimunuir as taxas de manuseio





IBM abre 3 projetos contra o câncer envolvendo Inteligência Artificial [2]



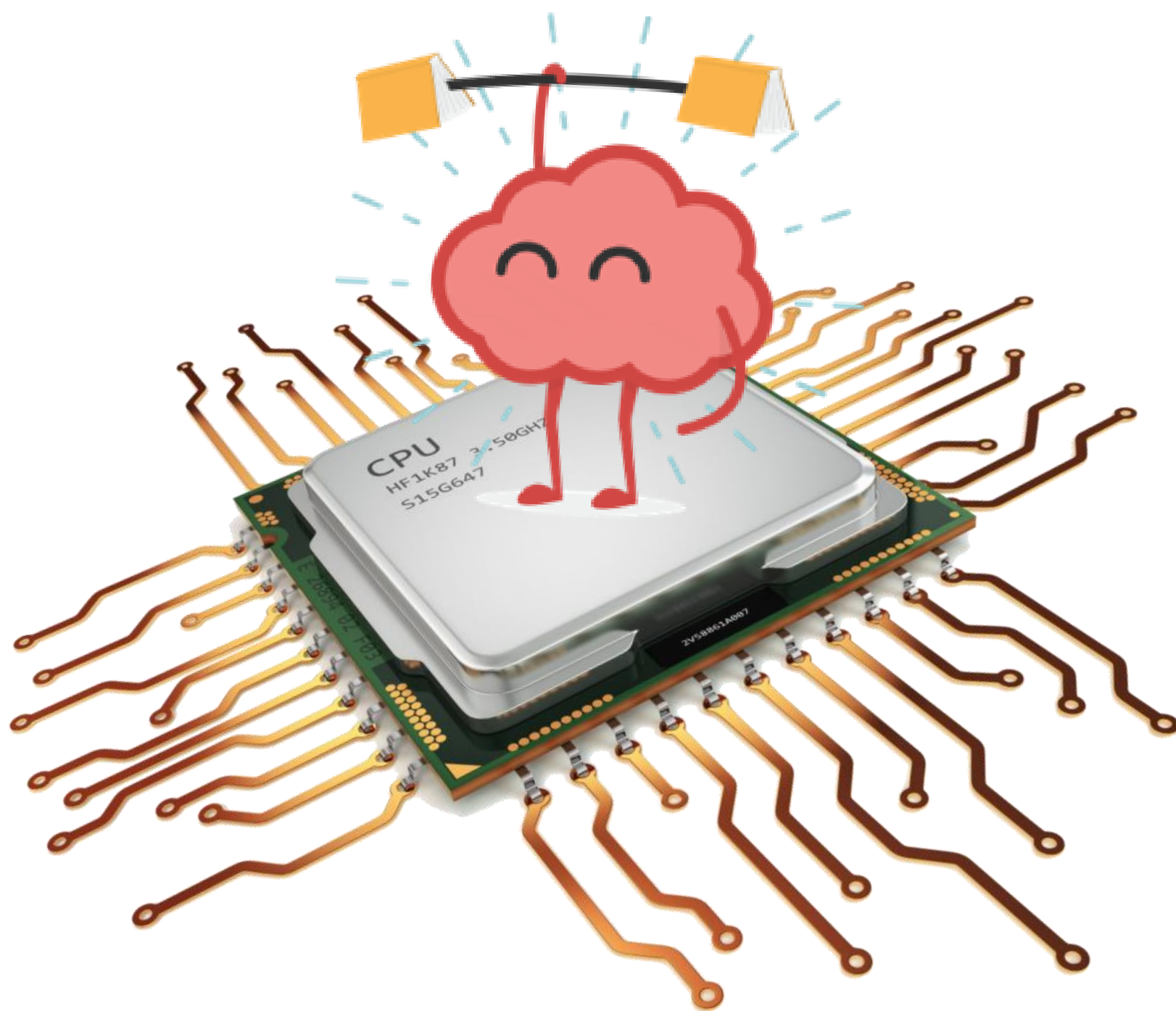


IBM abre 3 projetos contra o câncer envolvendo Inteligência Artificial [2]

01 ► [INtERAcT](#)

02 ► [PaccMann](#)

03 ► [PMIKL](#)



Navigation

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- "A collaborative forum to promote and facilitate open source software in human and veterinary healthcare"
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- OSCHA 2007 Kuala Lumpur, Malaysia
- Presentations
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Are you interested in open source health care IT?

Aims and Objectives

OSHCA is a non-profit organisation that provides the collaborative platform and forum to promote and facilitate Free/Open Source Software in Health Care. OSHCA's membership comprises a community of people, civil societies and professional bodies in health care and informatics industries that promotes the Free/Open Source Software Concepts in Health Care. OSHCA helps policy makers, commercial enterprises, and users take advantage of the benefits of Free/Open Source Software.

The formal registration in Malaysia is now completed. OSHCA's registration number is 1482-06-WKL and the date of its registration is 31 October 2006.

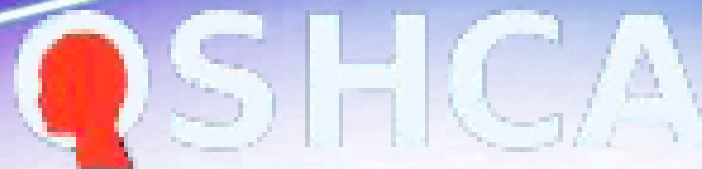
To help define the future of OSHCA as an organisation and to participate in OSHCA activities, join OSHCA as a member and be part of its working groups.

The OSHCA mailing list, together with the Openhealth mailing lists will provide the platform for members as well as IT professionals and members of the public who are interested in health care and open source software to gather and discuss the issues of this field.

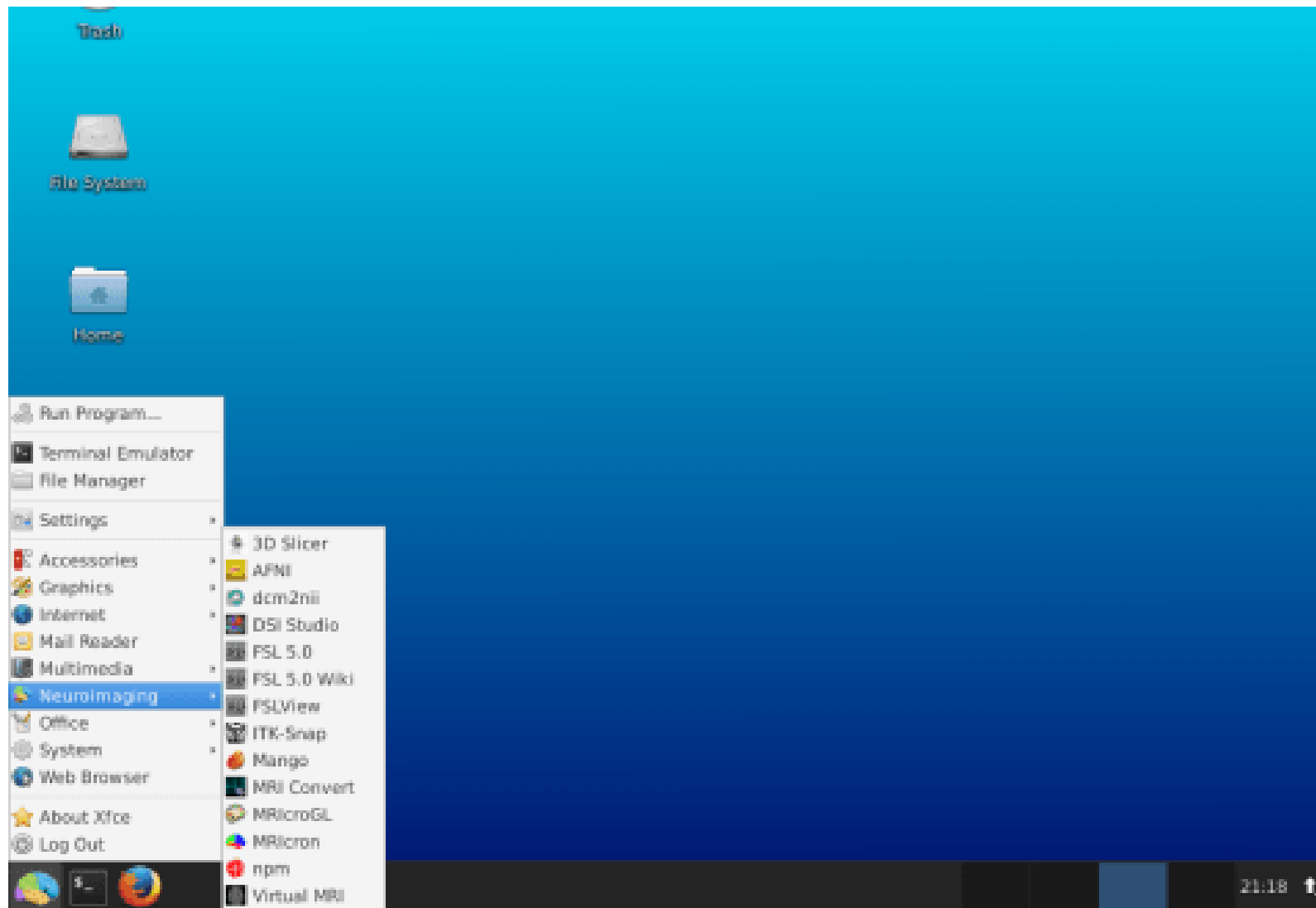
OSHCA 2007 Conference Programme and Information

August 2020

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Open Source Health Care Alliance



Lin4Neuro

Coleção de
ferramentas de
análise de
"neuroimagens"



Bio-Linux

Contém um
Arcabouço de
Bibliotecas,
frameworks e
Softwares
relacionados a
bioinformática



DNA-Linux

É um SO em
nuvem
com ferramentas
relacionados a
bioinformática

Iniciativas Open



UBUNTU MED



NeuroFedora



NeuroDebian



debian-med



Categorias Sistemas de Informação



**ELECTRONIC MEDICAL
RECORD (EMR)**



**HOSPITAL
MANAGEMENT (HMIS)**



**HEALTH INFORMATION
SYSTEM (HIS)**



[Help](#)[Sponsor](#)[Log in](#)[Register](#)

gnuhealth 3.6.4

```
pip install gnuhealth
```

[Latest version](#)


Released: May 16, 2020

Betty Evans Female 65 year(s) (25.Jul.1954) [Edit](#) [Show Contact Info](#) ▾

Given Family Name

Patient ID 1005JK

Active Visit - 19.Sep.2019, 23:33:56 Outpatient 

 Save Form  Exit Form

Vitals

Height (cm)

Weight (kg)

(Calculated) BMI

 Temperature (C) Pulse

Respiratory rate

Blood Pressure

Blood oxygen saturation

Confirm**Blood Pressure** /



Please tell us about your installation for the OpenMRS Atlas

[Configure Atlas](#)

Logged in as Super User () at Inpatient Ward.



Find Patient Record



Active Visits



Appointment
Scheduling



Register a patient



Register a patient



Capture Vitals



Sync 2



Atomfeed



Reports



Data Management



Configure Metadata



System
Administration



OpenMRS

[Help](#)[Sponsor](#)[Log in](#)[Register](#)

gnuhealth 3.6.4

```
pip install gnuhealth
```

[Latest version](#)

Released: May 16, 2020

GNU Health - The Free/Libre Hospital and Health Information System



“[DICOM](#) is the international standard for medical images and related information ” [6]



Frameworks de Desenvolvimento

- `pip install pyhealth` - Biblioteca de IA\ML para fazer previsões médicas
- `pip install MedPy` – Processamento de Imagens Médicas
- `pip install pyGeno` - Banco de Dados de Bioinformática/Medicina de Precisão
- `Pip install pydicom`- trabalho com imagens médicas
 - - Dicom – Imagens Digital e comunicação na medicina



Frameworks de Desenvolvimento

- `pip install pyexphys` – trabalha com módulos que contém equações relacionadas a fisiologia
- `pip install pynetdicom` – protocolo de rede Dicom
- `pip install pyhealth` - Biblioteca de IA\ML para fazer previsões médicas
- `pip install MedPy` – Processamento de Imagens Médicas
- `pip install pyGeno` - Banco de Dados de Bioinformática/Medicina de Precisão



Frameworks de Desenvolvimento

- AMI Medical Imaging - imagens médicas para apps webs
- npm install dicomjs – biblioteca para análise de dados dicom
- Cornerstone.js - Biblioteca JavaScript para Imagens médicas não limitada os DICOM



elemedicina

“Telemedicine is the use of electronic communications and information technologies to provide clinical services when participants are at different locations. ” [3]



**World Health
Organization**

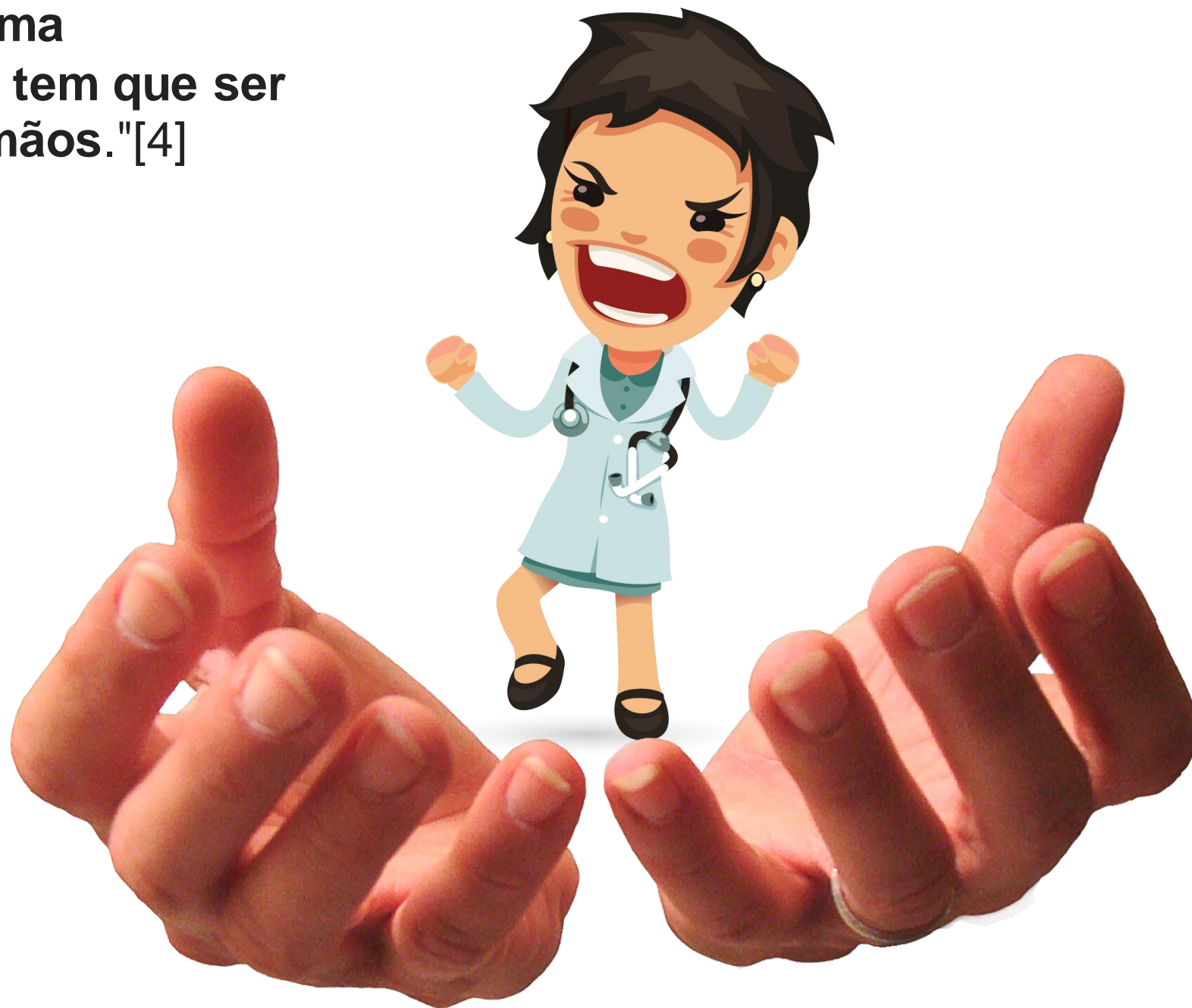


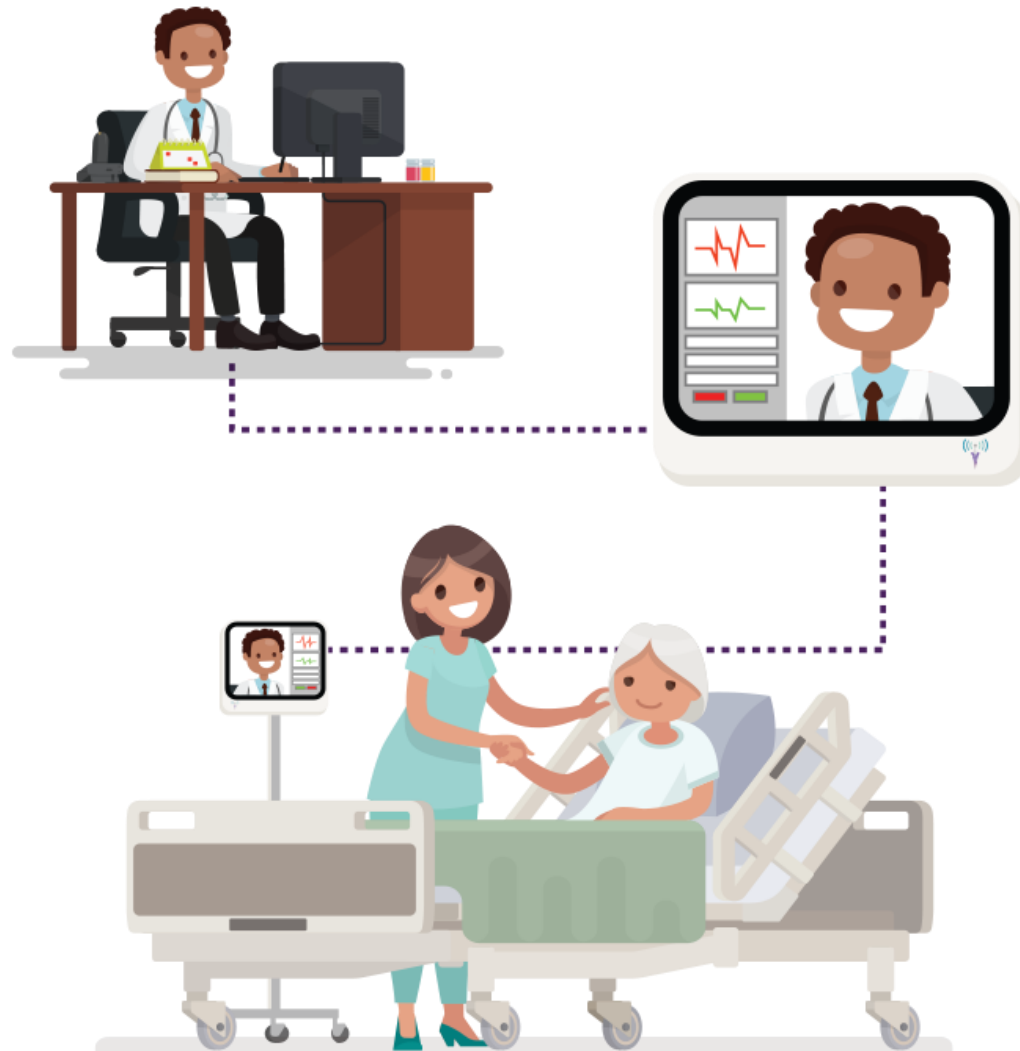
Telemedicina

- Regulamentação de práticas de Telemedicina no Brasil
 - [RESOLUÇÃO CFM Nº 1.643, DE 07 DE AGOSTO DE 2002](#)



**"Medicina é uma
profissão que tem que ser
feita com as mãos."[4]**









Fonte: Endeavor Brasil, 2017

"Por que Open-Source?"

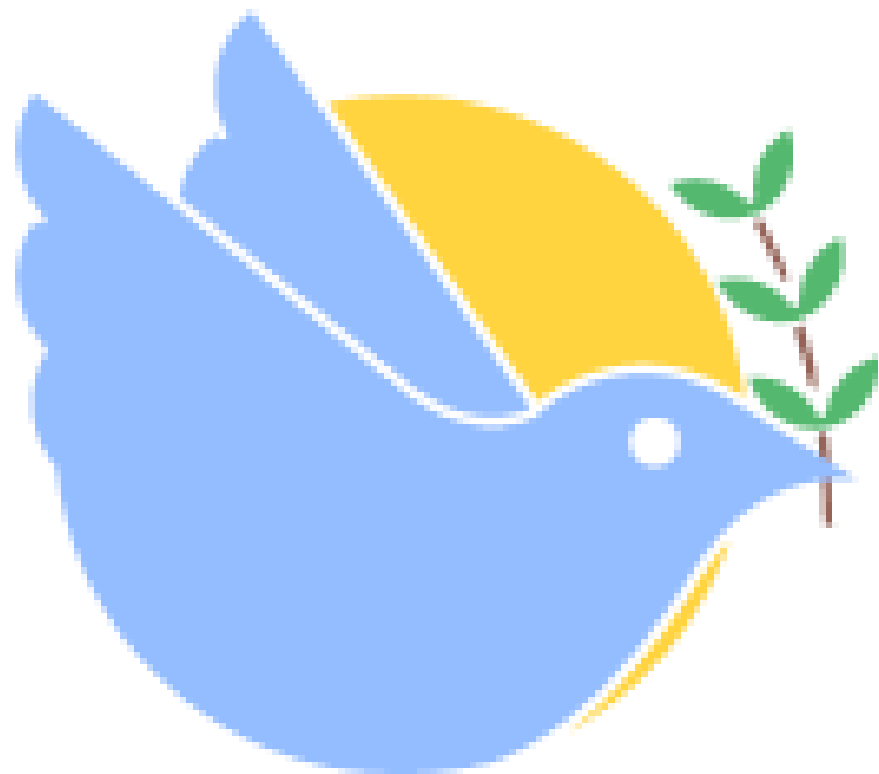
- Transparência
- Conhecimento
- A modificação pode trazer benefícios, como adaptar o código para as leis que regulamentam a utilização de dados
 - **GPDR**(General Data Protection Regulation)
 - **LGPD**(Lei Geral de Proteção dos dados)
 - **HIPAA**(Health Insurance Portability and Accountability Act)



"Por que Open-Source?"

- Aprimoramento do software e do serviço fornecido pelo mesmo
- Intercâmbio de conhecimento
- Aprimorar a Segurança do Software





Thank's!

We Are ALL FLOSS!



Referências Bibliográficas

- [1]<https://medevel.com/medtronic-open-source-its-ventilator-open-source-for-humanity/>
- [2]<https://medevel.com/ibm-open-sourced-three-cancer-research-ai-projects/>
- [3]https://www.who.int/goe/policies/countries/usa_support_tele.pdf?ua=1
- [4] <https://drauziovarella.uol.com.br/videos/drauzio-comenta/medicos-de-hoje-sao-melhores-que-os-de-antigamente/#:~:text=Medicina%20é%20uma%20profissão%20que,do%20médico%20com%20o%20paciente.>

Referências Bibliográficas

- [5]<https://medevel.com/medtronic-open-source-its-ventilator-open-source-for-humanity/>
- [6]<https://pypi.org/project/pynetdicom/>

Bônus

- ☐ [SIMVASCULAR](#)
- ☐ [SOFA](#)
- ☐ [IMSTK](#)
- ☐ [SIMSURGSIM](#)
- ☐ [BioGear](#)

Bônus

- ☐ [OHIF](#)
- ☐ [DCM4CHE](#)
- ☐ [DWV](#)
- ☐ [X Toolkit](#)
- ☐ [GIMIAS](#)
- ☐ [OpenELIS](#)

Bônus

☐ [BIOIMAGEXD](#)

☐ [Cese](#)

☐ [CVSim](#)

☐ [XNBC](#)

☐ [Pulse](#)

☐ [OpenSim](#)