

Teoria das Ciências: Mais um Argumento pelo Livre em Software Livre

Ole Peter Smith

ole@mat.ufg.br

<http://www.ime.ufg.br/docentes/olepeter>

Instituto de Matemática e Estatística,
Universidade Federal de Goiás

ENSL/COALTi
Maceió, Alagoas
29/10/2011

A Civilization is Assessed by the Way it Treats it's Minorities
Mahatma Gandhi

Currículo

- Copenhagen, Dinamarca - 11/01/1964
- Mãe Solteira - Filha 'Alemão'
- E, bastardo...
- Menino Hiperativo- Expulso de 4 escolas
- Ginásio: Matemática e Biologia
- Ms. em Engenharia - MAT, DTU - 1990
- PhD em Matemática - MAT, DTU - 1996
- Systems Administrator MAT, DTU - 1996-2002
- Emigração p/ Brasil (Iporá), 2002
- 6 meses desempregado
- Prefeitura ~ UEG ~ FAI (2002-2009)
- Prof. Adjunto, IME, UFG - 2009-...

Introduction

Free Software

- Software
 - Software
 - Information Technology
 - Science - Nature
 - Universal
- Free
 - Freedom
 - Philosophy
 - Science - Human
- Can we say 'Free Software' without saying 'Free Thinking'?

Somos todos Condenados à Liberdade - *Sartre*

Science

What is Science?

- Objectivity
- Verificability
- Reproduzability
- Exact - Human - Social
- Fundamental Sciences:
 - Applied in all other Sciences
 - Philosophy
 - Mathematics
 - Information Technology
- Knowledge is Power
- Thus, Implies Responsibility!!!

My Education is what's left,
When I Forgot Everything they Taught me in School
A. Einstein

Scientific Methods

- Experimental
 - Hypothesis
 - Verifiability
 - Theory: Hypothesis Verified Repeatedly
- Statistical
- Deductive
 - Deduction
 - Induction: Conclusion by Experience
 - Abduction: Conclusion by Plausability
 - Axioms
 - Definitions
 - Theorems

A. Einstein

Axioms

Knowledge is Axiomatic - thus Questionable!!

- Axioms
- Paradigms
- Traditions
- Norms
- Tabus

We are all Condemned to Freedom - *Sartre*

- To Travel is to Live
- Go be Someone Different
- Personal Convergence
- Free?

Axiom of Euclid

Parallel Lines never Intersects!?

- Lines:
Minimum Distance: Geodetics
- Earth: Great Ball
- Geodetics: Great Circles
- Equator going South
- Meets in Antarctis
→Intersects
- Euclidian/Noneuclidian Geometry
- Perspectival Projection
- Fractals

Believe Half You see - and Nothing You Hear

Religion

- In All Societies - Why?
- Provides Answers to Basic Existencial Questions
- Unquestionable Axioms
- Nós (Comfortante) - Eles (Discriminatório)
⇒ Conflitos de *Recursos*
- Am I a Christian?
- Faith vs. Culture

I Really do Like Your Christ - but Dislike Your Christians
Why can't Your Christians be more like Your Christ?

Mahatma Gandhi

Free - Freedom

- Individually
- Socially
- **Environmentally**
- My Rights Comences where the Society's Rights Ends

Freedom is Life Quality

- Free Education - Health Care
Free Science - Knowledge
Free Expression - Democracy - Press
- Inclusion Benefits Society
- Conflicts
Over Ressources - not Religion/Race
Starts with: Us & Them

Free Software

- Free to: Use - Read - Modify - Distribute
- Communities Exchanging Knowledge
- Software, only: Insufficient
 - Filosifically: Free Thinking
 - Tecnically: Impact of IT on Society
- Our Potentials:
 - Technology, Cummunication
 - Philophy of Free Thinking
- We *must* Make a Difference

Free Thinking and Government

- Legislate Exactly What?
- Between the Individual and Society/Environment
- Just Societies are Created by Wise Laws
- Equality in Front of the Law: Isonomy
- Stupid Laws: Degenerating
- Democracy or Democraiture
- Free Press: But the People must READ

Intelligence

- Potential
- Sacred Present: Begavet (DK)
- Duty to Use!!!
- Postively - Constructively
- As Individual - as Society
- Exclusion: Waste of Intelligence
- Freedom is to Make the Most of Your Intelligence
- Discipline vs. Curiosity
- Autodidactism

The one that takes fun just for fun
And serious only seriously
As a matter of fact misunderstood both
Peit Hein

Moral vs. Ethics

- Ethics: Stimulates Questioning
- Moral: Disallows
 - What Scares me the Most is the Silence of the Good
Martin Luther King

Example: Dubbing on TV

- Abusive in Interviews
- Why?
- Analfabetism
- *Almost* Erradicated
- English:
 - Worst Performing Subject in Brazilian Education
 - When the Teacher doesn't Speak English...
- Tradition - Context has Changed

The Road to Knowledge is Simple my Friend:
Err, Err and Err Again
But Less and Less and Less *Peit Hein*

Brazil: Potentially a Great Nation

- Wealth & Culture
 - Citizenship
 - Democratic Culture
 - Global Contribution - Not Nationalism
-
- The Road to Knowledge is Simple my Friend:
Err, Err and Err Again
But Less and Less and Less *Peit Hein*

The End
Please Always Enjoy!

Idéias: O Cúmulo de Fertilidade

Ole