

RUST and Climate Change in Tunisia

Laabidi RAISSI RustLab November 2023







Plan

- 01 Introducing Myself
- 02 The problem
- O3 The consequences
- O4 Some of what we can do
- 05 Meet Eya & Nour



01 Intro

- Senior Software Engineer
- 13 years of experience in Java enterprise applications
- Email: <u>laabidi.raissi@gmail.com</u>
- Interested in (and horrified by) Climate Change
- Founded a website to translate articles from English about Climate Change (from New Yorker, New York Review of Books, London Review of Books, Guardian, etc...): al-munakh.org





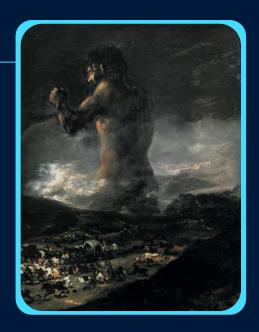
If you are a capitalist

"Climate Change looms over our future"

Climate Change: The Ultimate Challenge for Economics William D. Nordhaus

Nobel Lecture in Economic Sciences-December 8, 2018

<u>Figure:</u> Francisco de Goya, El Coloso, Copyright Museo Nacional del Prado



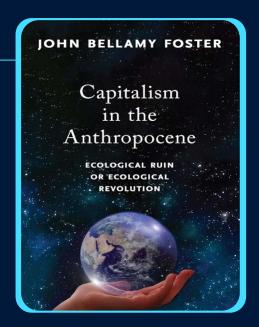




If you are a marxist

Capitalism in the AnthropoceneEcological Ruin of Ecological Revolution

Figure: John Bellamy Foster - Editor of Monthly Review







If you are a Centrist

"Climate Breakdown Has Begun"

Press Release

<u>Figure:</u> UN Secretary-General Antonio Guterres Announcement (emphasis my own)



Meetings Coverage and Press Releases

Economic and Social Council -

Security Council ▼

PRESS RELEASE

Home

SECRETARY-GENERAL >> STATEMENTS AND MESSAGES

Secretary-General ▼

General Assembly -

SG/SM/21926 6 SEPTEMBER 2023

International Court of Justice

<u>Climate Breakdown Has Begun</u> with Hottest Summer on Record, Secretary-General Warns, Calling on Leaders to 'Turn Up the Heat Now' for Climate Solutions





If you are a Scientist

"The 2023 state of the climate report: Entering uncharted territory"

Figure:

https://academic.oup.com/bioscience/adva nce-article/doi/10.1093/biosci/biad080/731 9571







A CLIMATE WARNING FROM THE CRADLE OF CIVILIZATION

By Alissa J. Rubin Photographs and Video by Bryan Denton

Alissa J. Rubin and Bryan Denton spent months reporting from nearly two dozen cities, towns and villages across Iraq.

July 29, 2023

The word itself, Mesopotamia, means the land between rivers. It is where the wheel was invented, irrigation flourished and the earliest known system of writing emerged. The rivers here, some scholars say, fed the fabled Hanging Gardens of Babylon and converged at the place described in the Bible as the Garden of Eden.

Figure: Report From:

https://www.nytimes.com/2023/07/29/world/middleeast/iraq-water-crisis-desertification.html





Human-induced climate change compounded by socio-economic water stressors increased severity of drought in Syria, Iraq and Iran

08 November, 2023

Drought

Asia

From boreal winter 2020 onwards, a large region in West Asia, encompassing the Fertile Crescent around the rivers Euphrates and Tigris as well as Iran has suffered from exceptionally low rains and elevated temperatures. The resulting 3-year drought has led to severe impacts on agriculture and access to potable water.

Figure: World Weather Attribution: https://www.worldweatherattribution.org/





PRESS RELEASE | NOVEMBER 6, 2023

Tunisia's Economic Recovery Slows Down amid the Drought

Figure: https://www.worldbank.org/en/news/press-release/2023/11/06/tunisia-s-economic-recovery-slows-down-amid-the-drought

Worst drought on record forces Tunisia to cut off drinking water for seven hours every night

Figure: https://www.euronews.com/green/2023/04/03/worst-drought-on-record-forces-tunisia-to-cut-off-drinking-water-for-seven-hours-every-night





European Psychiatry

Eur Psychiatry. 2022 Jun; 65(Suppl 1): S633-S634.

Published online 2022 Sep 1. doi: 10.1192/j.eurpsy.2022.1624

Immigration projects among young doctors in Tunisia: Prevalence, destinations and causes

M. Ajmi, ¹ M. Kahloul, ² 1. L. Kacem, ² A. Chouchane, ² S. Ben Mansour, ¹ Y. Slama, ¹ M. Hafsia, ³ M. Maoua, ² N. Mrizak, ² and W. Naija ¹

► Author information ► Copyright and License information PMC Disclaimer

Abstract

Introduction

The shortage of doctors has become a worrying problem in Tunisia. It is influenced by the phenomenon of immigration which remains poorly studied despite its magnitude.

Livro

Figure:

PMCID: PMC9567516

https://www.ncbi.nlm.nih.gov/pmc/artic les/PMC9567516/







Selective Immigration: Tunisia Loses Its Skilled Workforce To Broader Horizons

- 🕓 12 July 2023 / Rihab Boukhayatia / Translation: Vanessa Szakal
- Translation Français

Nurses, doctors, engineers, university students, restaurateurs...are leaving Tunisia in droves. The country is losing its skilled workforce to Europe and the Gulf countries, with no end to the exodus in sight.

Figure: https://nawat.org/2023/07/12/selective-immigration-loses-its-skilled-workforce-to-broader-horizons





04 Some of What We Can Do

- Read about Climate Change
- Compensate for immigration effects
 - Give remote courses
 - Give remote trainings
 - Give financial help: licences, servers, access to courses





Personal experience - ISSAT Kasserine

- Nov. 2021: A brief introduction to Rust
- 2021: A course on handling data with Elasticsearch
- 2022: worked with students on 2 final projects for BAs:
 - Exploration and documentation of Raft implementation in tikv (https://github.com/tikv/raft-rs)
 - Exploration of the Apache Arrow implementation in Rust (https://github.com/apache/arrow-rs)
- 2023: A course and training on Java
- 2023: Worked with students on 1 final project for BA:
 - Learning Rust
 - Founding and animating The Tunisia Rust Meetup











05 Meet Eya & Nour



Eya DERBALI Master's Research Student



Nour OMRI
Software Engineering Student





It would be great if you could join us!

