

**VDP Report:**

**Migration Flux throughout the years in Portugal**

(from 2008 to 2021)

Master’s degree in Data Science & Engineering – FEUP

Visualization and Data Preparation

November 2022

Authors: Cátia Teixeira, Sónia Ferreira, Vasco Bartolomeu

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# Introduction

*“History in its broadest aspect is a record of man's migrations from one environment to another”* - [*Ellsworth Huntington*](https://www.azquotes.com/author/7083-Ellsworth_Huntington)

Starting from the first humans to spread from Africa, humans have been roaming from one place to another all over the globe. It is the process that allowed human species to be so ubiquitous at the present moment and may as well be the reason the species survived at all throughout periods of both selective and environmental evolutionary pressures (Lewontin, 1982).

Portugal is well known to have a tradition in producing a large number of emigrants. It is also true that for some decades already, there is also an increase in immigration to this country (Góis, P. and Marques, J.C., 2009).

In fact, in 1999 the number of immigrants residing in Portugal represented less than 2 per cent of the total resident population. These were overwhelmingly from Portuguese-speaking countries (either Brasil or PALOP). This scenario changed drastically with sudden migratory wave from Eastern Europe around 2001, particularly from Ukraine. Within a few years, the foreign resident population rose from 208 198 to 460 293 people (approximately 5 per cent of total population in 2005). This period marked a significant feminization and a diversification in countries of origin (Fassmann, H.,2009).

# To continue : De preferência usar referências se possível – algo que é valorizado. A seguir devíamos fazer ligação com o que foi dito e com o que fomos estudar neste trabalho em específico. Este ultimo parágrafo faz uma boa relação com o gráfico das nacionalidades. Nota: Ligados à VPN da FEUP temos acesso a artigos científicos

This work aims to study migration fluxes in Portugal from the period of 2008 to 2021.

In the course of

You have to prepare a final report that:

 states the question(s) you aim to answer

 describes the dataset(s) used and briefly explains the pre-processing steps

 provides a justification for your visualization design (type of chart, encoding, colors, fonts,

etc.)

 cannot exceed 10 pages with an 11 pt. font

# Methodology

This chapter describes the methodology applied in the course of this project.

## Data Source

The data was obtained from the “PORDATA: dados estatísticos sobre Portugal e europa” website.

Two datasets were selected for analysis:

* Permanent emigrants per age group;
* Permanent immigrants per age group;
* Nationalities of legal immigrants in Portugal.

## Pre-processing

The following steps were taken as data preprocessing:

|  |  |
| --- | --- |
| Step 1 |  |
| Step 2 |  |
|  |  |
|  |  |
|  |  |

# Ultimo gráfico: pivot da tabela

# Results

# Conclusions

# References

Lewontin, R. (1982). *Human Diversity.* Scientific American Books - - W. H. Freeman & Co.

Góis, P. and Marques, J.C. (2009), *Portugal as a Semi-peripheral Country in the Global Migration System.* International Migration, 47: 21-50.  HYPERLINK "https://doi.org/10.1111/j.1468-2435.2009.00523.x" https://doi.org/10.1111/j.1468-2435.2009.00523.x

Fassmann, H. (2009). *European migration: Historical overview and statistical problems*. Statistics and reality. Concepts and measurements of migration in Europe, 21-44.