



# **SDG 12B – Fast Fashion Environmental Impact**

**STEAM Design**

Ana Frenkel

Monica Tjen

Sofia Silveira

Yuxiao Song

# Introduction

- STEAM Design Course: Interdisciplinary work - Art + DTI
- SDG 12: Responsible Consumption and Production
- Our Project: Artistic data visualization using the shape of a tree to represent four main aspects of the environmental impact of the fast fashion industry.



# Data



10% global CO<sub>2</sub> from textiles

- 38% Material Production
- 20% Product Use
- 15% Wet Process
- 8% Yarn Preparation



92 million tonnes yearly

- 70% Landfilled
- 17% Burned
- 13% Recycled



Found in rivers

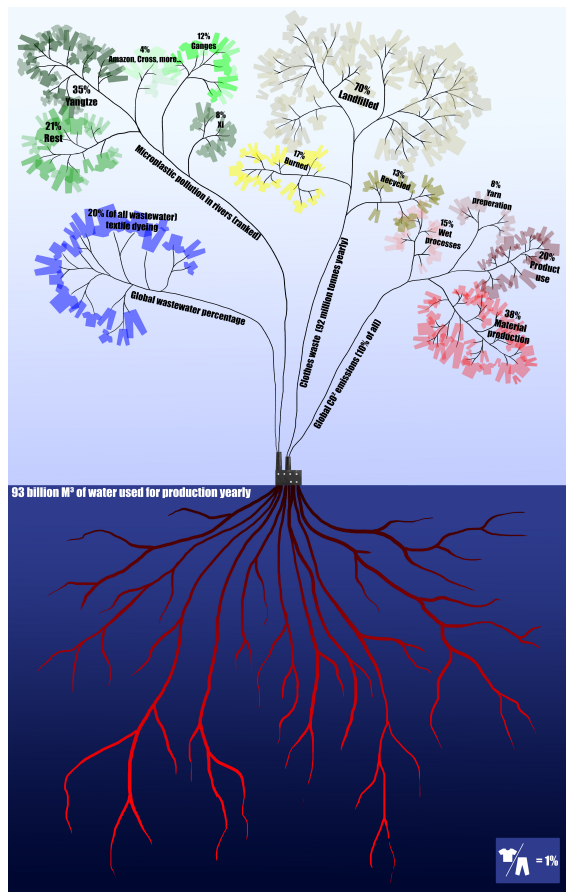
- 35% Yangtze
- 12% Ganges
- 8% Xi
- 4% Cross, Amazon, ...
- ...



20% from textile dyeing



93 billion cubic meters yearly



# References

Carbon Dioxide Emissions from Clothing Industry and wastewater from clothing dye

[https://earth.org/data\\_visualization/the-9-biggest-fast-fashion-statistics/](https://earth.org/data_visualization/the-9-biggest-fast-fashion-statistics/)

Consequences of Apparel Overproduction

<https://sharecloth.com/blog/reports/apparel-overproduction>

Microplastic particles in an isolated part of the Canadian arctic

[https://frontiersin.figshare.com/articles/dataset/Data\\_Sheet\\_2\\_Remote\\_but\\_Not\\_Isolated\\_Microplastics\\_in\\_the\\_Sub-surface\\_Waters\\_of\\_the\\_Canadian\\_Arctic\\_Archipelago\\_xlsx/14767653/1](https://frontiersin.figshare.com/articles/dataset/Data_Sheet_2_Remote_but_Not_Isolated_Microplastics_in_the_Sub-surface_Waters_of_the_Canadian_Arctic_Archipelago_xlsx/14767653/1)

Plastic Pollution

<https://ourworldindata.org/plastic-pollution>

Water Consumption

<https://ellenmacarthurfoundation.org/a-new-textiles-economy>