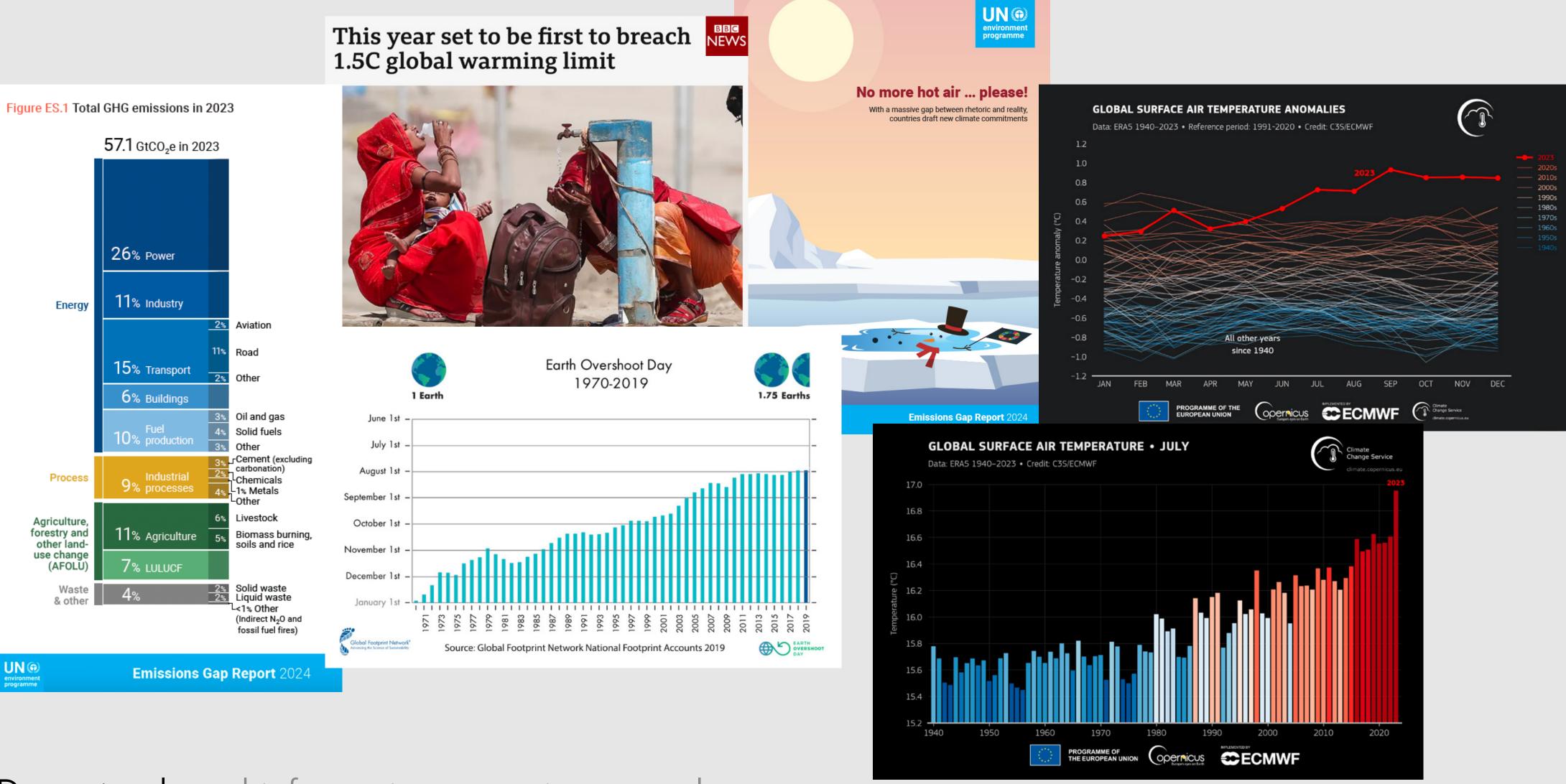
Making Data Visible

Yesim Tuzun

MAGCD Symposium 2024



Data visuals and information on environmental harm, often come across as distant, unrelatable.

Speculative Everything by Anthony Dunne & Fiona Raby



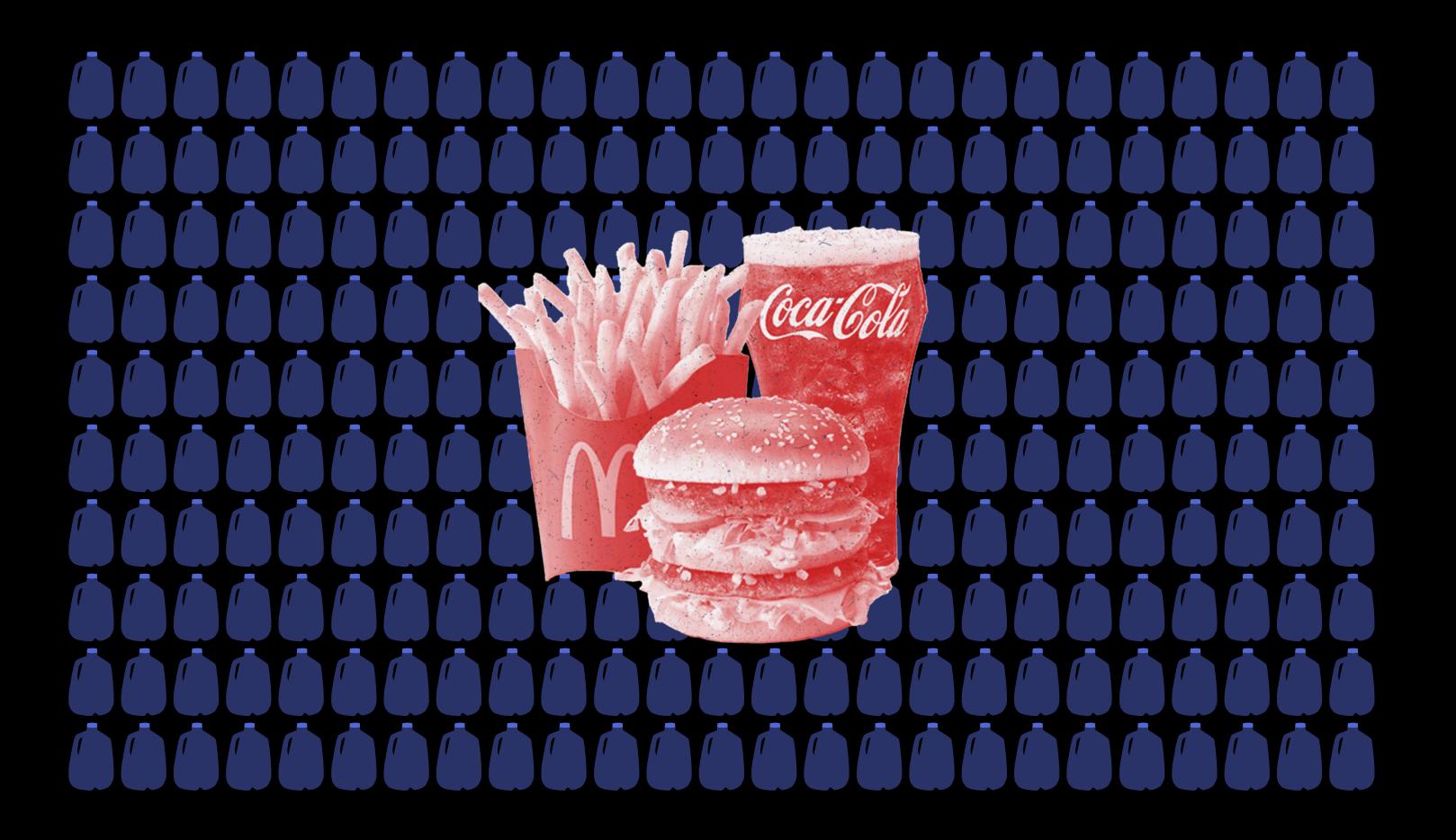
Using design as a form of critique is just one use for design, as is communication or problem solving. We believe that some design should always question prevailing values and their underlying assumptions and that this activity can sit beside mainstream design rather than replace it. The challenge is to keep evolving techniques that are appropriate to the times and identifying topics that need to be highlighted, reflected on, or challenged.

The hidden water footprint of a bigmac menu is



The hidden water footprint of a bigmac menu is





The hidden water footprint of a bigmac menu is

1232 litres = 8 bathtubs

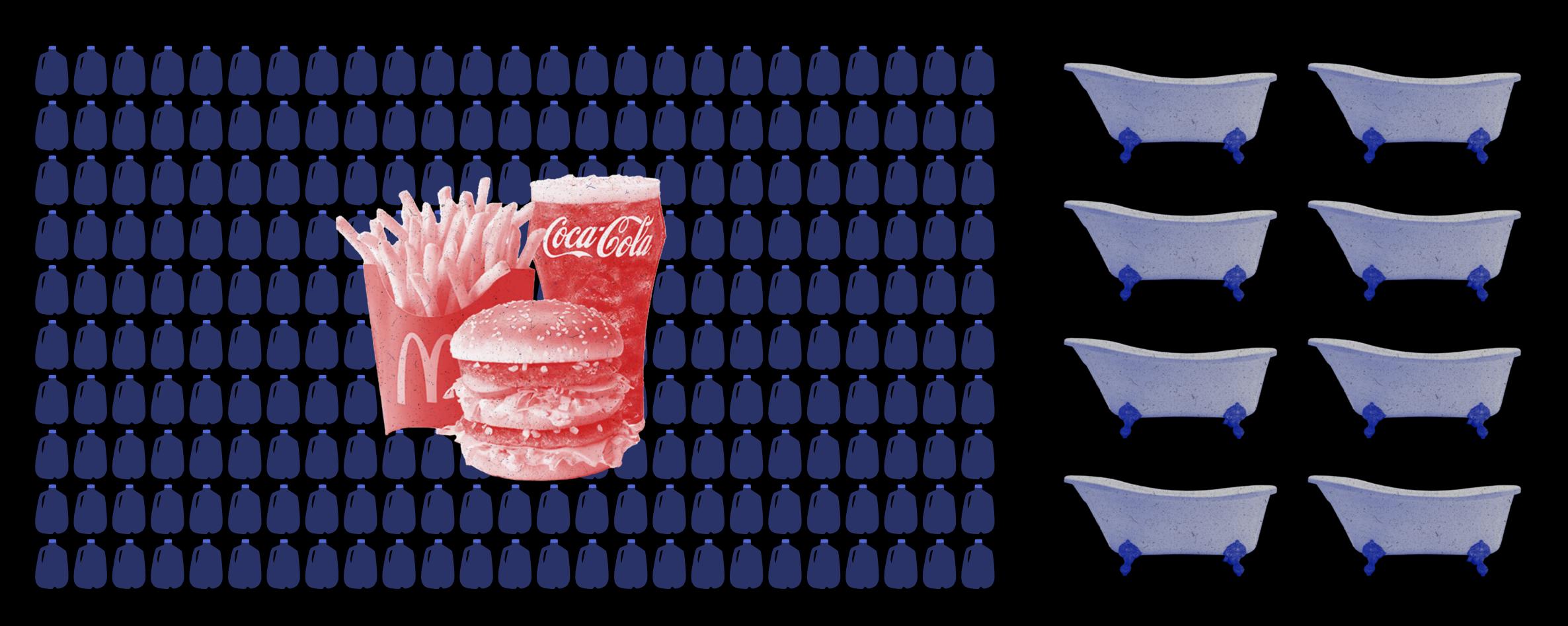






Photo credit JEAN-PIERRE MULLER/AFP via Getty Images

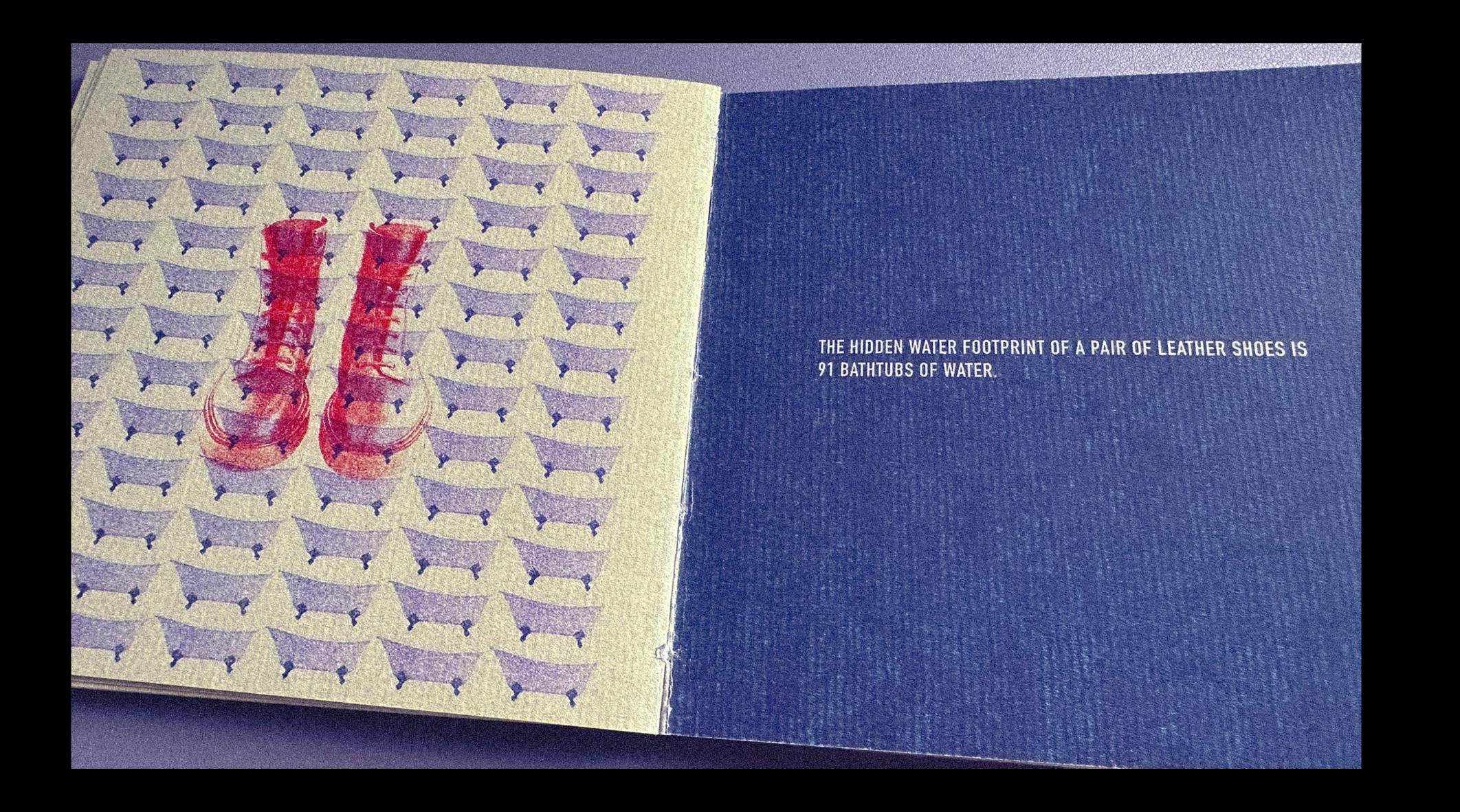




Photo credit Stephen Lovekin via Getty Images







Engaging with climate change: psychoanalytic and interdisciplinary perspectives. by Sally Weintrobe



Ecological debt offers a way to see who uses what natural resources and who owes a debt to whom. Unlike financial debts, ecological debts are absent from corporate and individual accounts, with no plans for repayment. These debts can be owed to other people, species, future generations, and the global commons, which includes resources like air and oceans that benefit all but belong to no one.

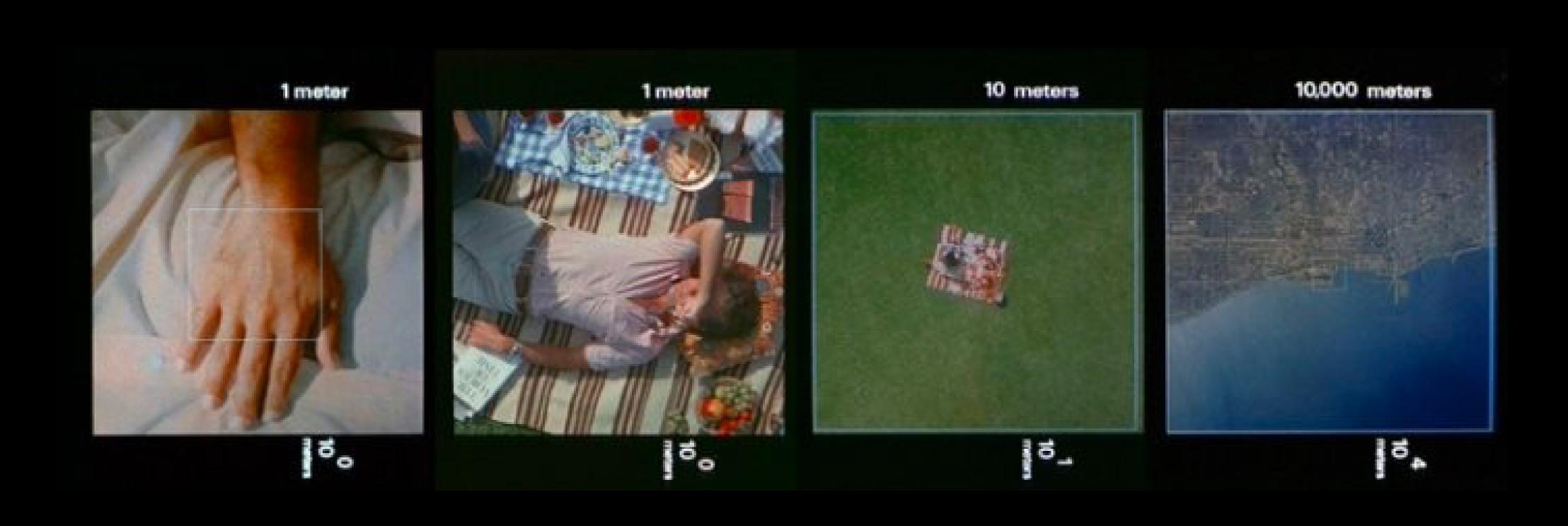
Pollution Pods by Michael Pinsky



Immersive art installation consists of five interconnected domes, each replicating the air in cities like London, New Delhi, São Paulo, and Beijing. As visitors move through each dome, they experience a shift in air quality, temperature, and humidity - mirroring the environmental conditions in each city. The project combines scientific data with visual art to help visitors understand how air pollution affects our world and health.



Powers of TenTM
Short Documentary by Charles & Ray Eames (1977)



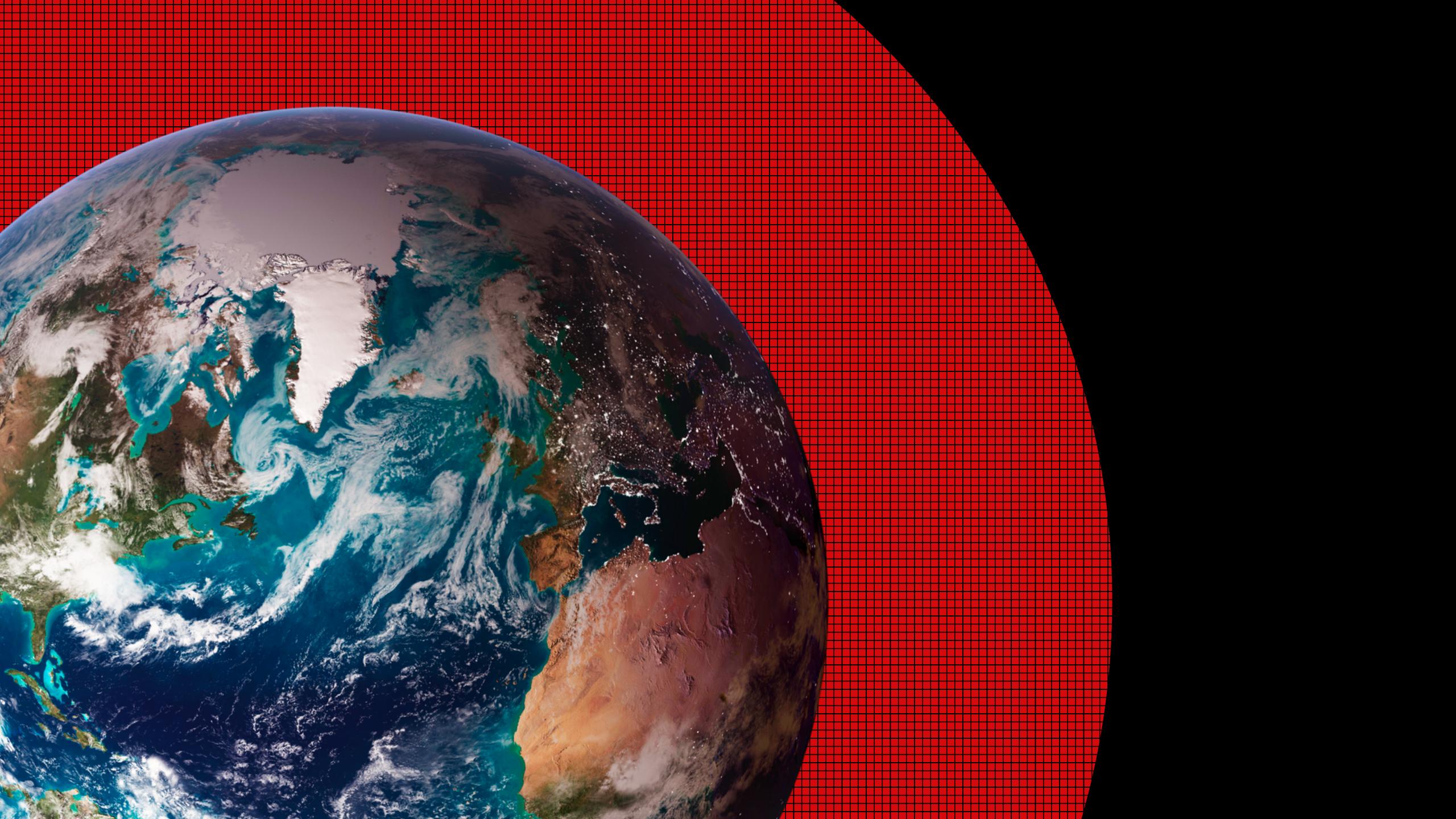






billion tonnes

53.700.000.000 tonnes

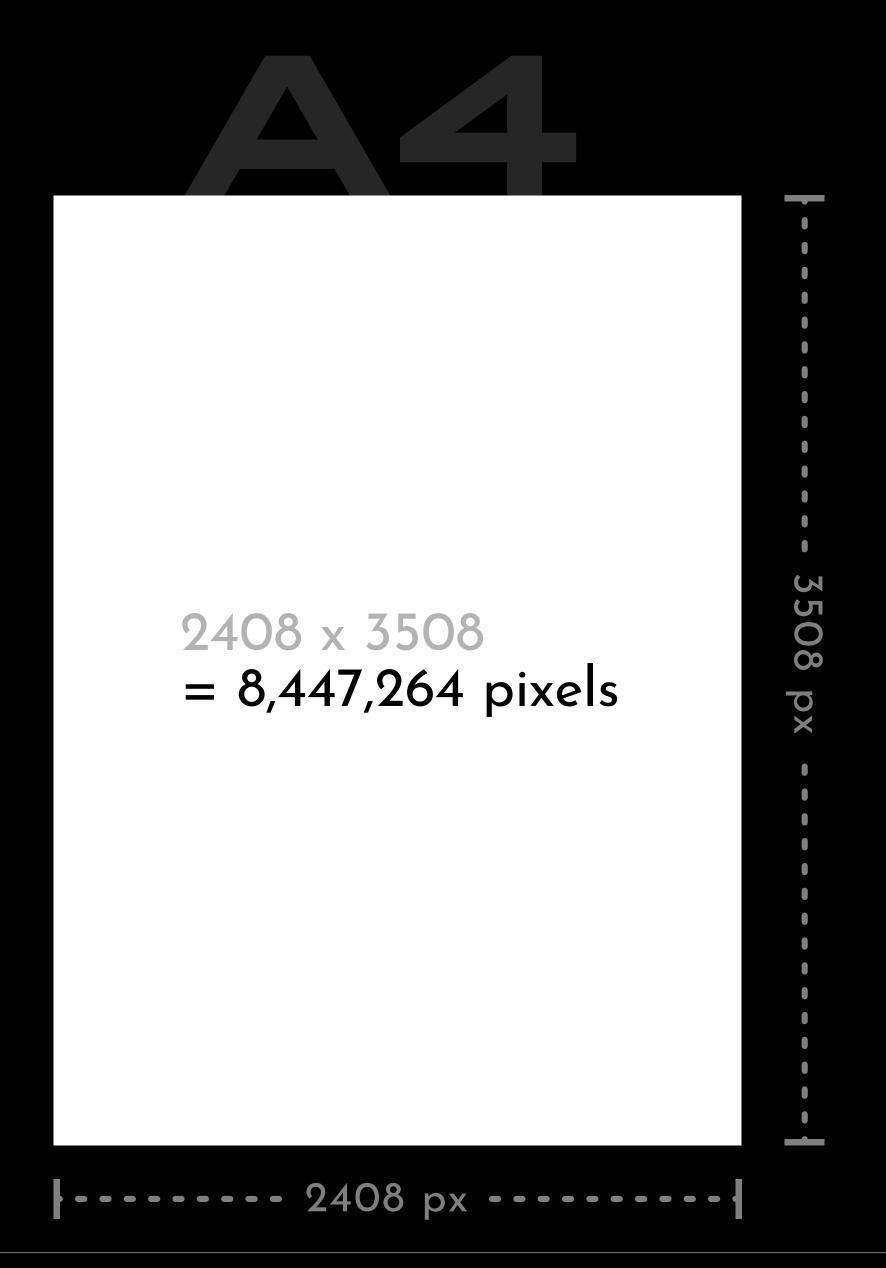


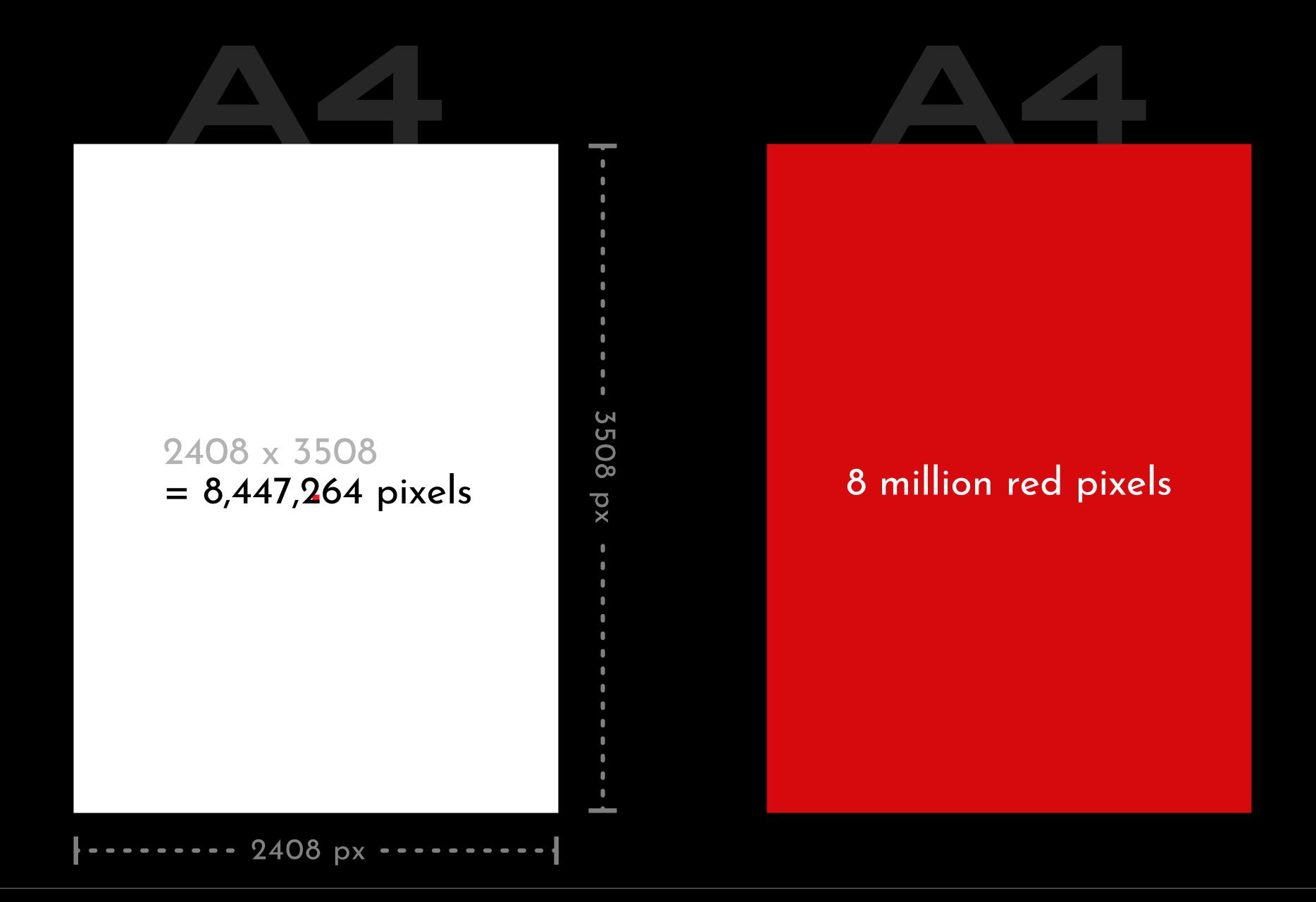
1 red pixel on an A4

-----> 1 red pixel on an A4

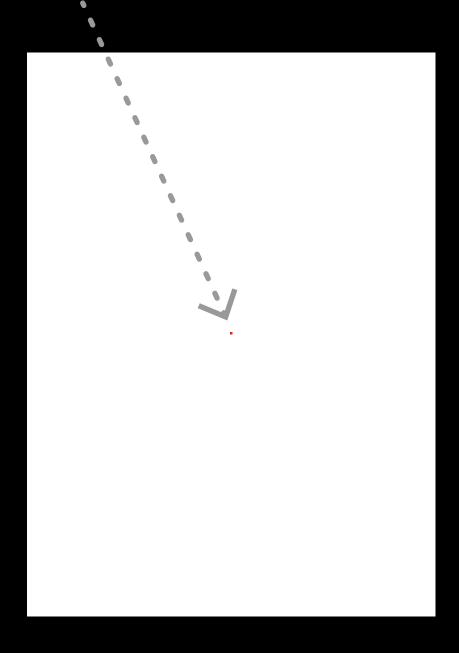
1 tonne of carbon

1 red pixel on an A4





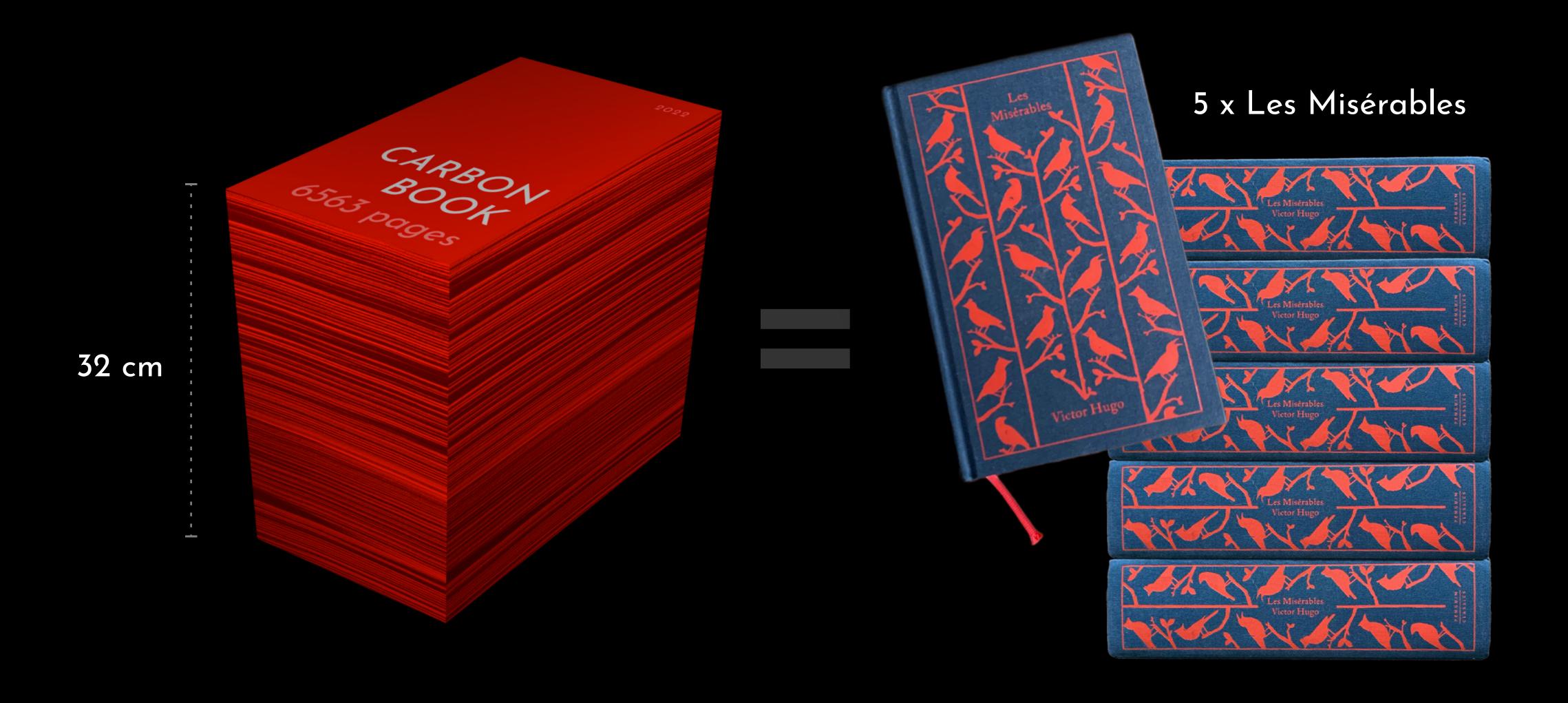
1 red pixel = 1 tonne of carbon



Total Global Carbon
Emissions in 2022
53.7 billion tonnes

= 6563 pagesof A4's fully coveredin red pixels

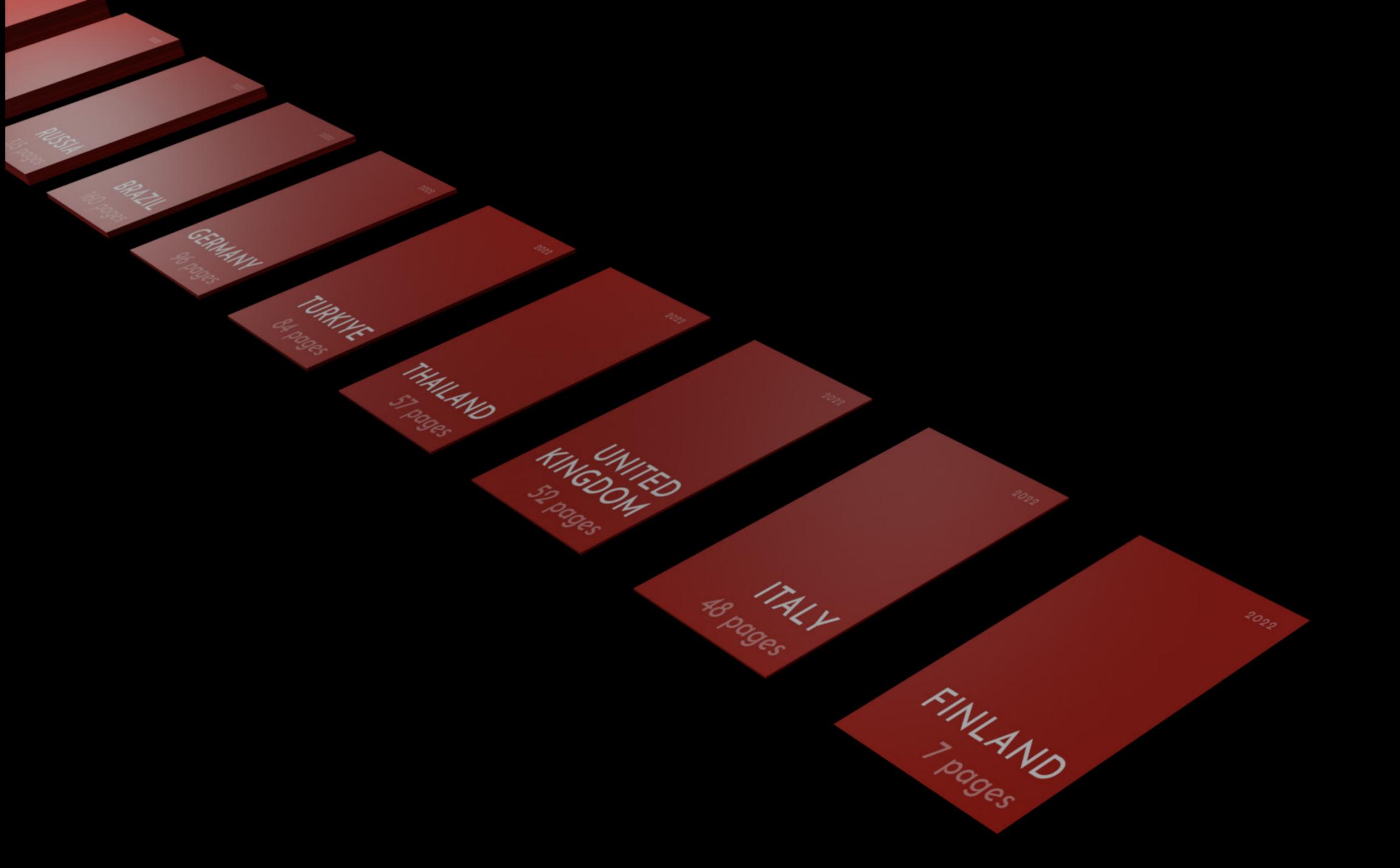




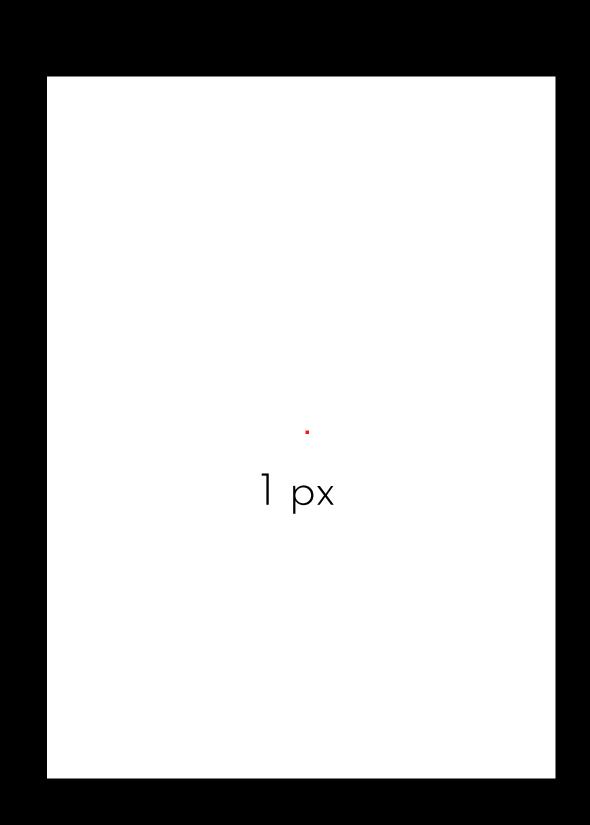
2022 By Ally 34 Sq. 154 104 RISSA BRALL To be a second of the second o GERMANA TURK/K

THAIL

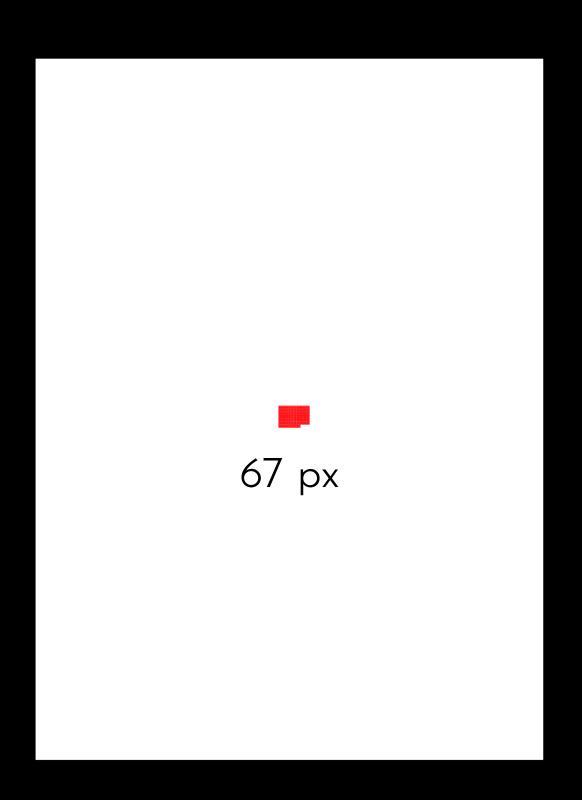
2022 GERMAN, TURKK THAILAND the Solices SP CORP. Tooland In the second of the s



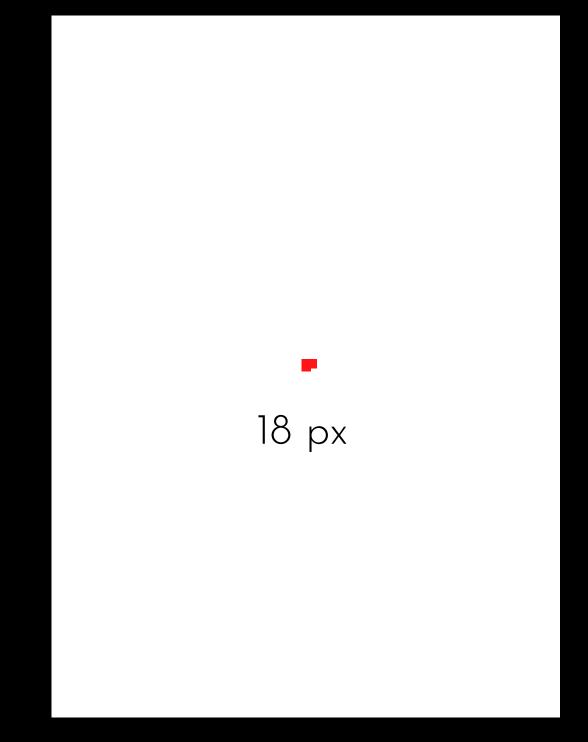
ndividual pixels Average Per Person



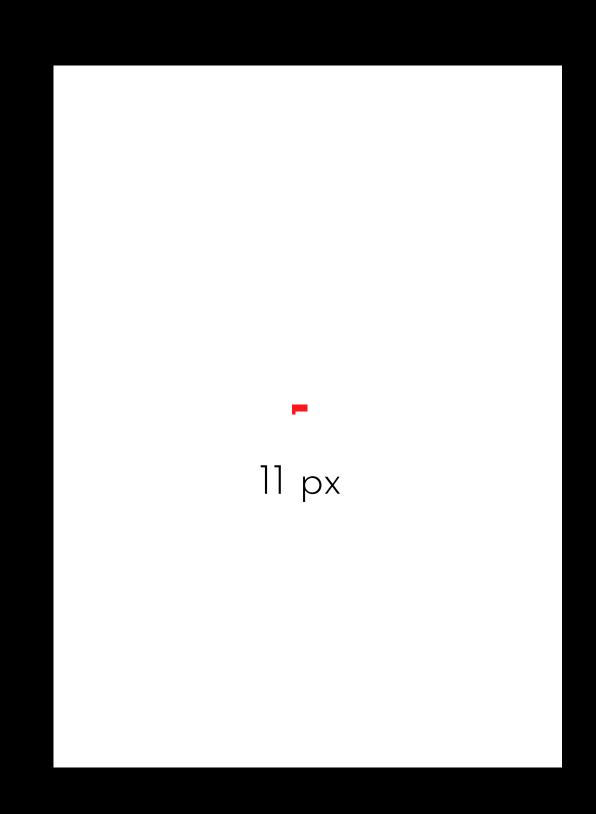
1 tonne of carbon



someone from Qatar



someone from
United States of
America



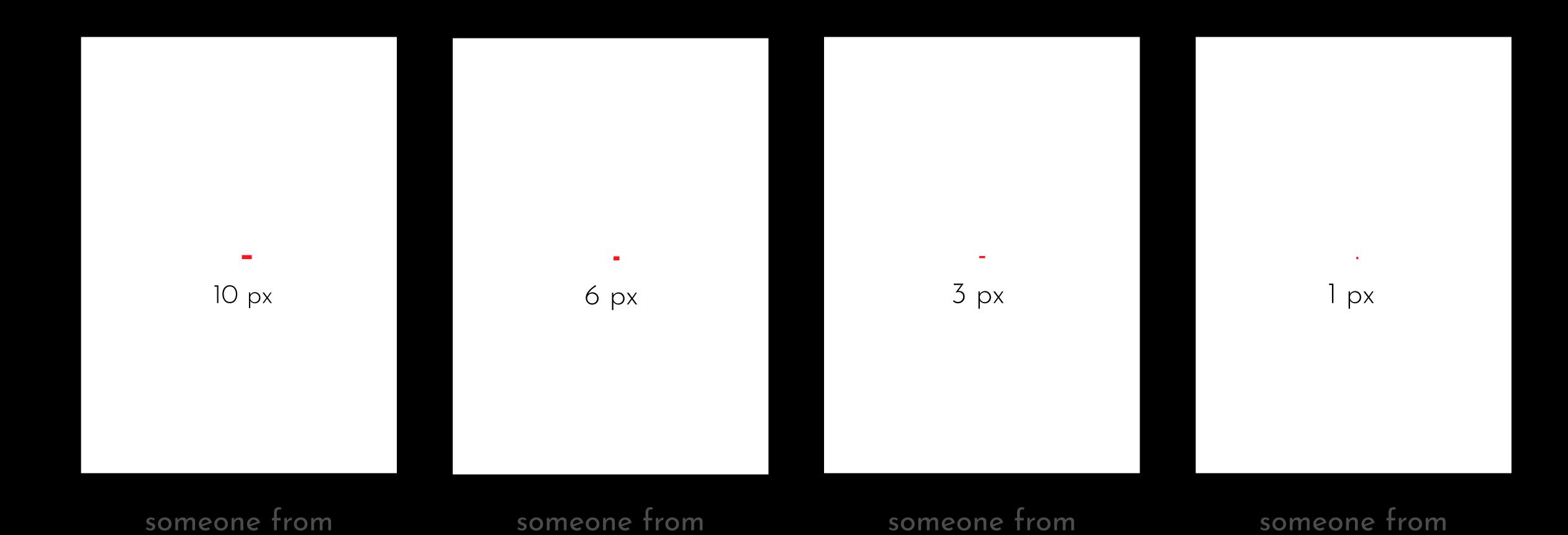
someone from China

Democratic Republic of

Congo

ndividual pixels Average Per Person

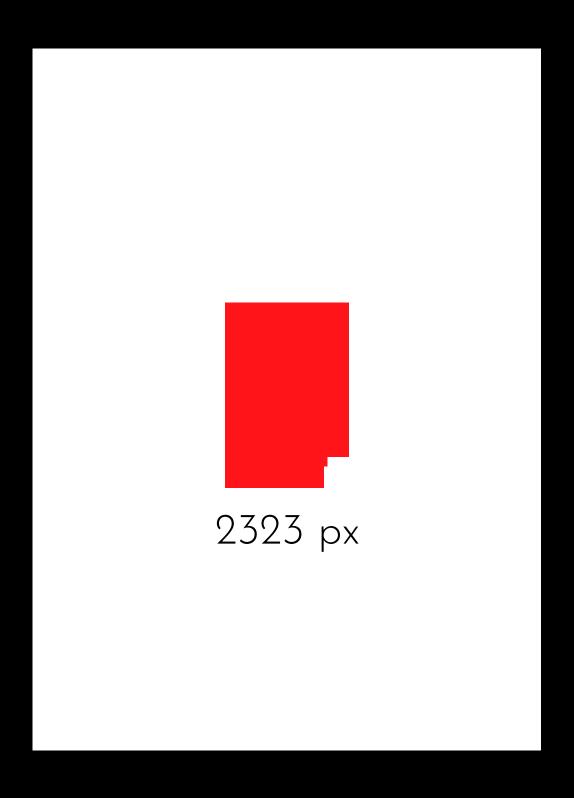
Finland



India

United Kingdom

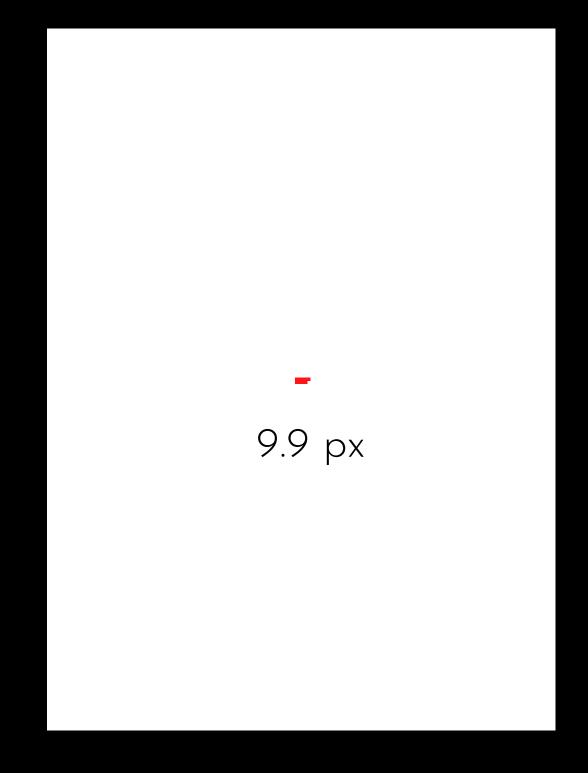
Individual pixels



Two Jet Planes of Elon Musk in 2022

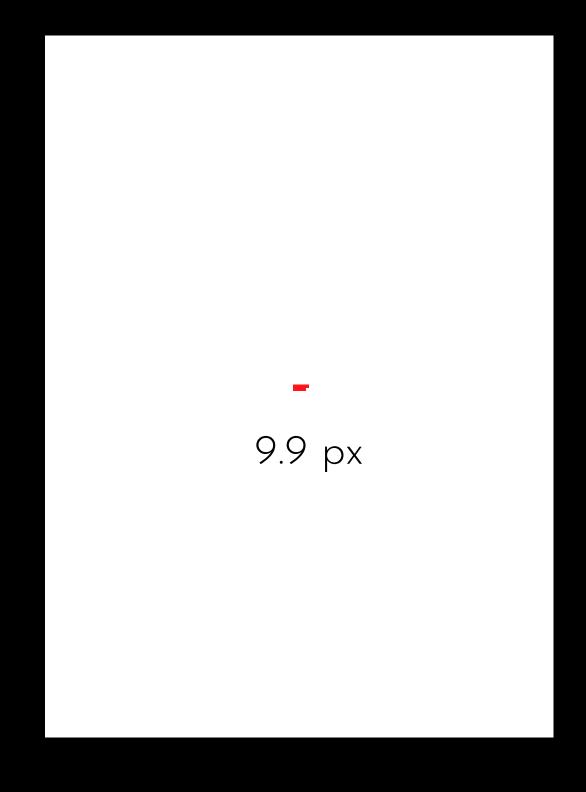
footprint.wwf.org.uk





my carbon debt October 2024





my carbon debt October 2024

Making Data Visible

Reframing makes abstract data more relatable, clarify the scale of both personal and collective impact. Visualizing scale could allow us to move back and forth between personal and global views, could help us understand where our actions fit within the larger environmental picture.

Thank You

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