

Graphic Design with ggplot2

Group Projects

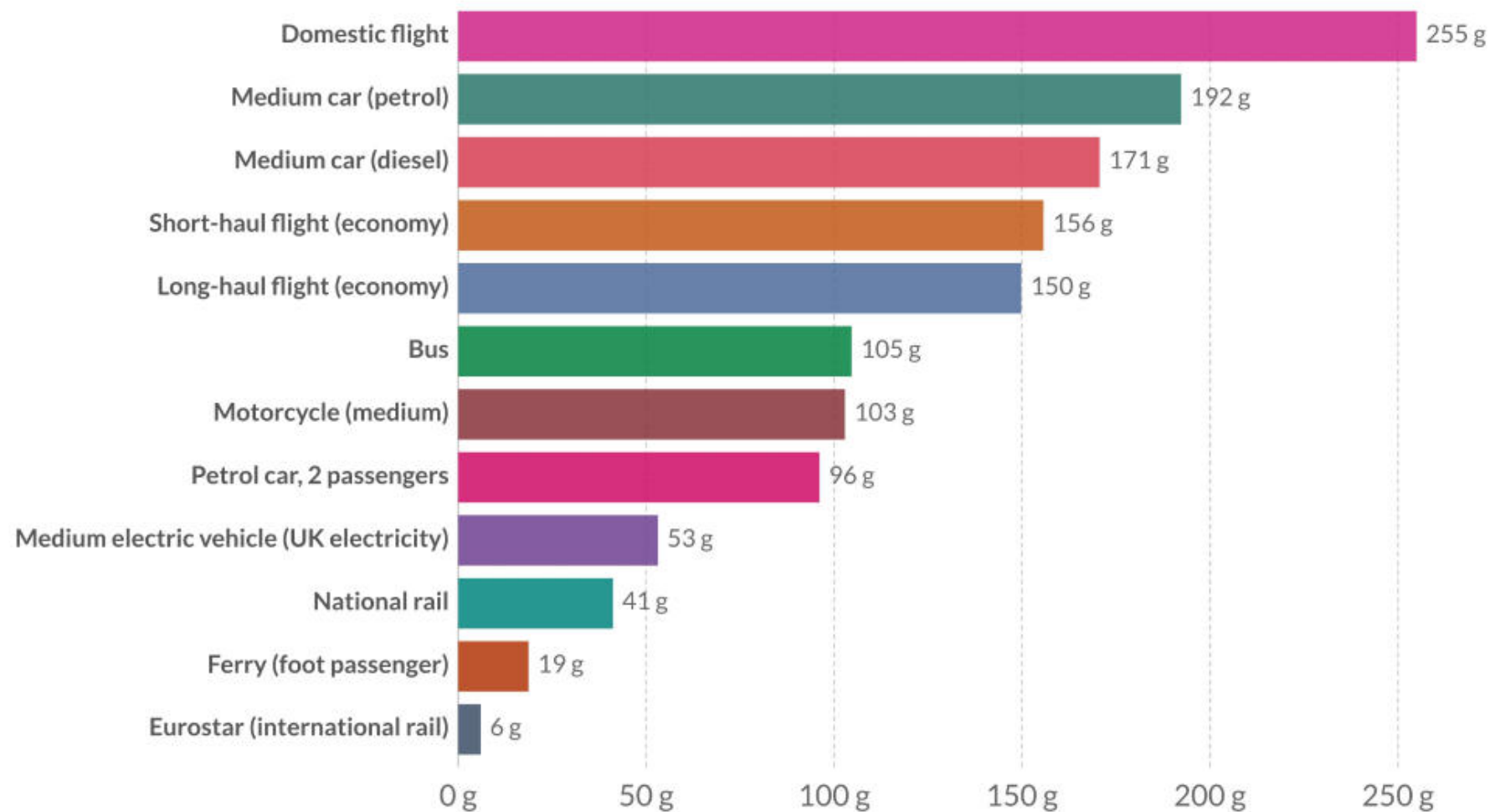
Cédric Scherer // rstudio::conf // July 2022

Group Projects

- Form groups and work on one of the following suggested projects:
 - Carbon Footprint of Travel (OWID / UK.gov)
 - Spending Before and During the Pandemic (JP Morgan Chase)
 - Speed of Languages (Economist / Coupé et al.)
 - US Drought Patterns (Drought Monitor)

Carbon footprint of travel per kilometer, 2018

The carbon footprint of travel is measured in grams of carbon dioxide equivalents per passenger kilometer. This includes carbon dioxide, but also other greenhouse gases, and increased warming from aviation emissions at altitude.



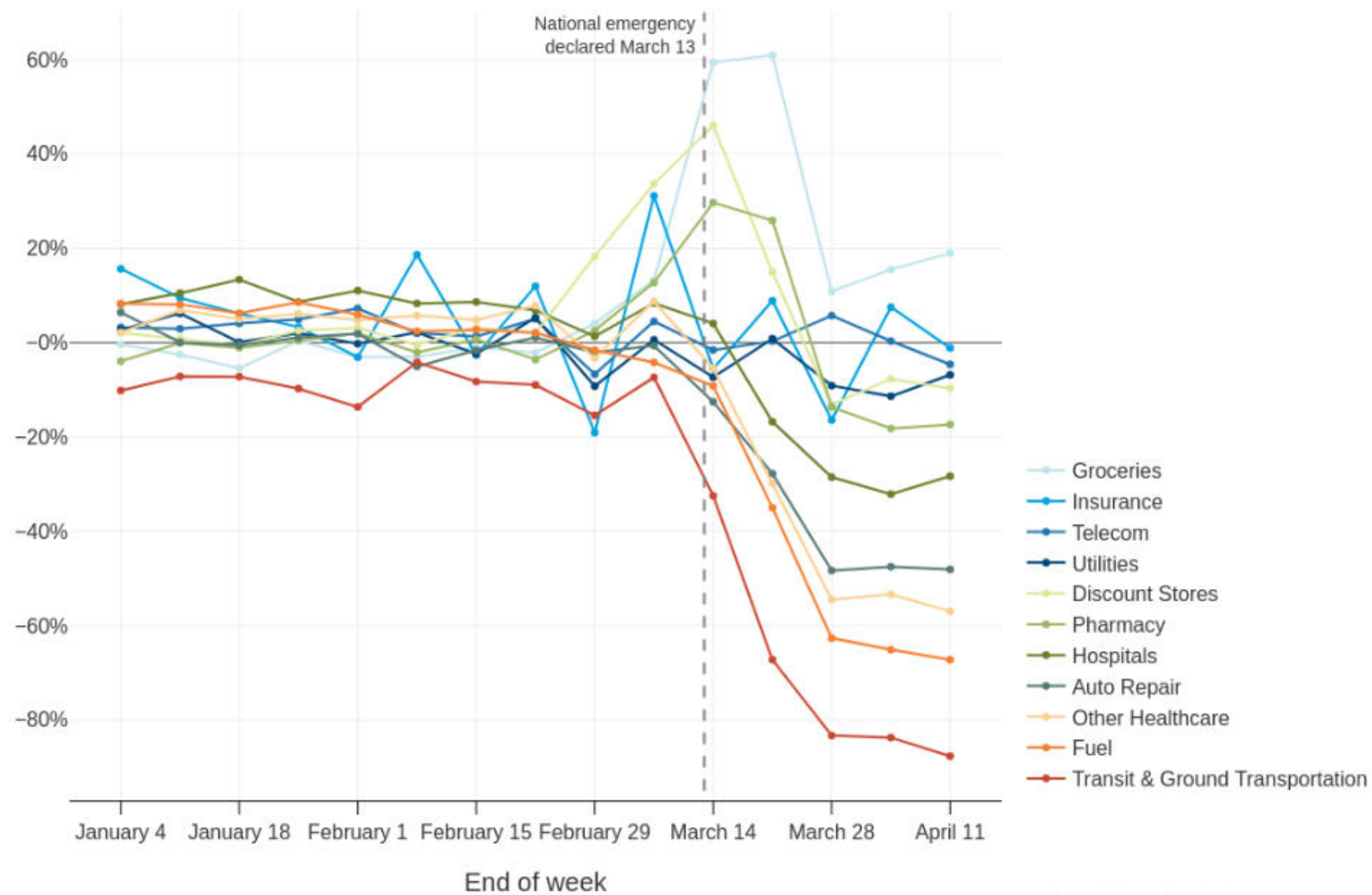
Source: UK Department for Business, Energy & Industrial Strategy. Greenhouse gas reporting: conversion factors 2019.

Note: Data is based on official conversion factors used in UK reporting. These factors may vary slightly depending on the country.

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Graphic Source: [Our World in Data](#)

Year-over-year percent change in spending by essential category



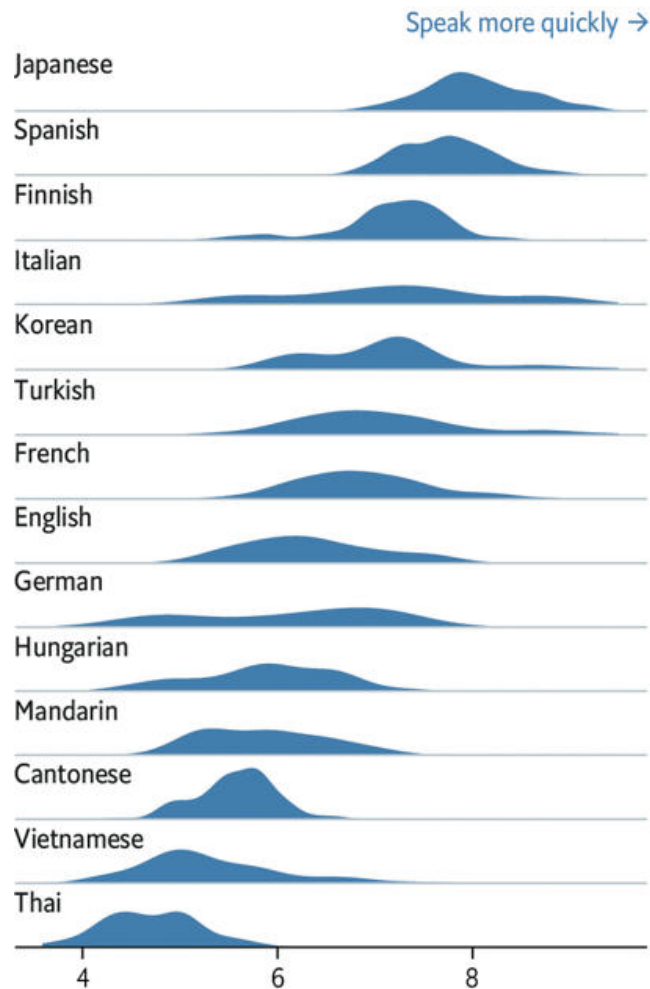
Source: JPMorgan Chase Institute

Graphic Source: [JPMorgan Chase Institute](#)

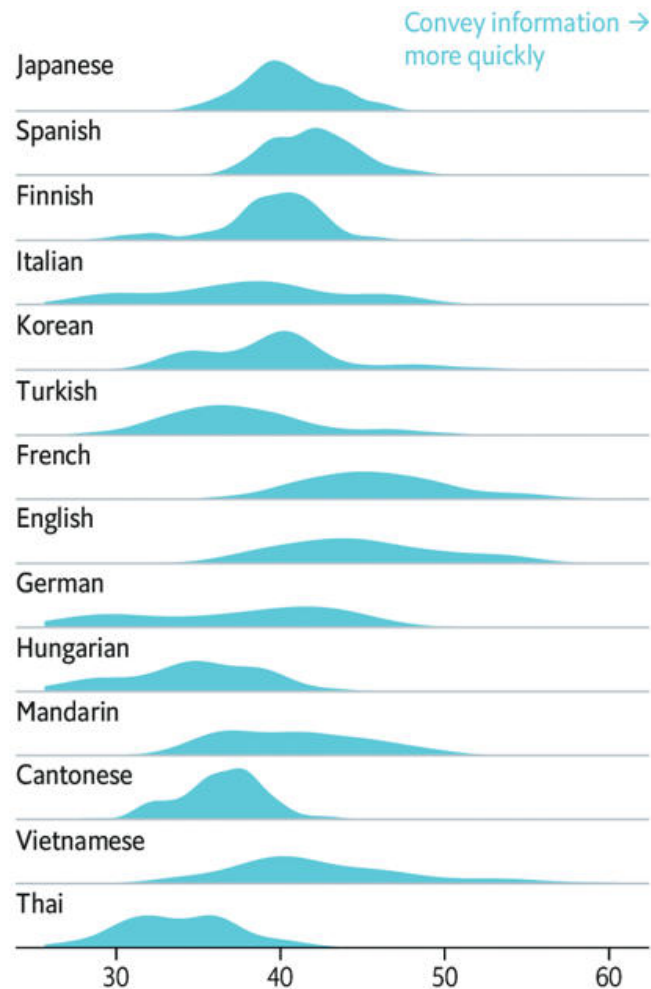
Say no more

Syllable rate and information rate in selected languages

Syllables per second



Information rate, bits per second



Source: "Different languages, similar encoding efficiency: Comparable information rates across the human communicative niche" by Christophe Coupé, Yoon Mi Oh, Dan Dediu and François Pellegrino, *Science Advances* (2019)

The Economist

Graphic Source: [The Economist](#)

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