



Mikołaj Malec

Bajki w Data Science

Na podstawie Nature Methods: Storytelling



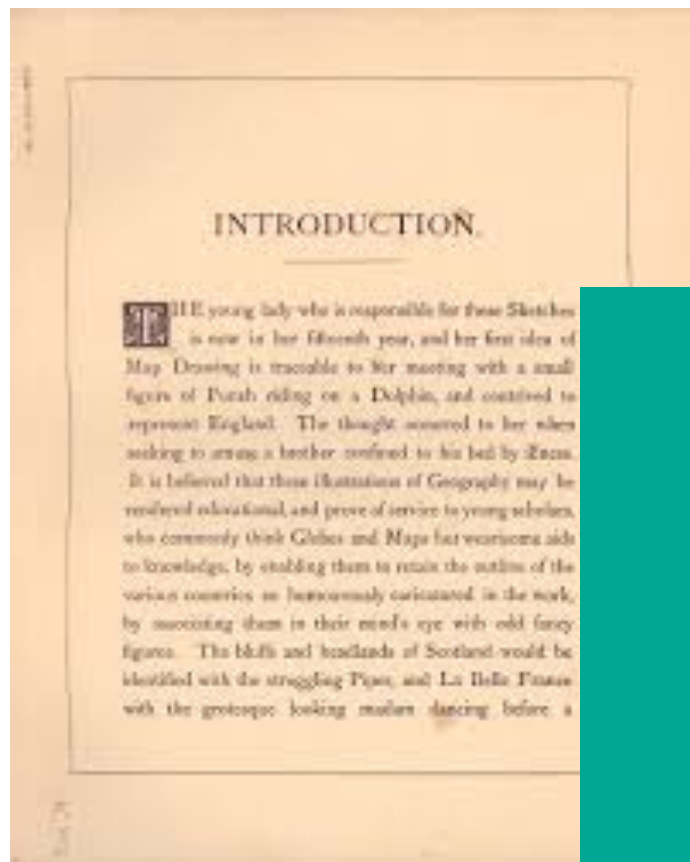
Wszyscy znamy
jakąś bajkę

Wykresy nie tylko dla białych kołnierzyków



Narracja jest nieodłącznym elementem Data Science





Wstęp - Pytanie - Konflikt - Rozwiązanie

Historia

WHERE THERE'S SMOKE—THERE'S CANCER

Cancer rates are up, but mortality is down. New diagnostics and treatments are responsible for part of this trend. But the greatest single contributing factor is the decline in smoking—rates are at their lowest level in 50 years.

Wstęp i pytanie

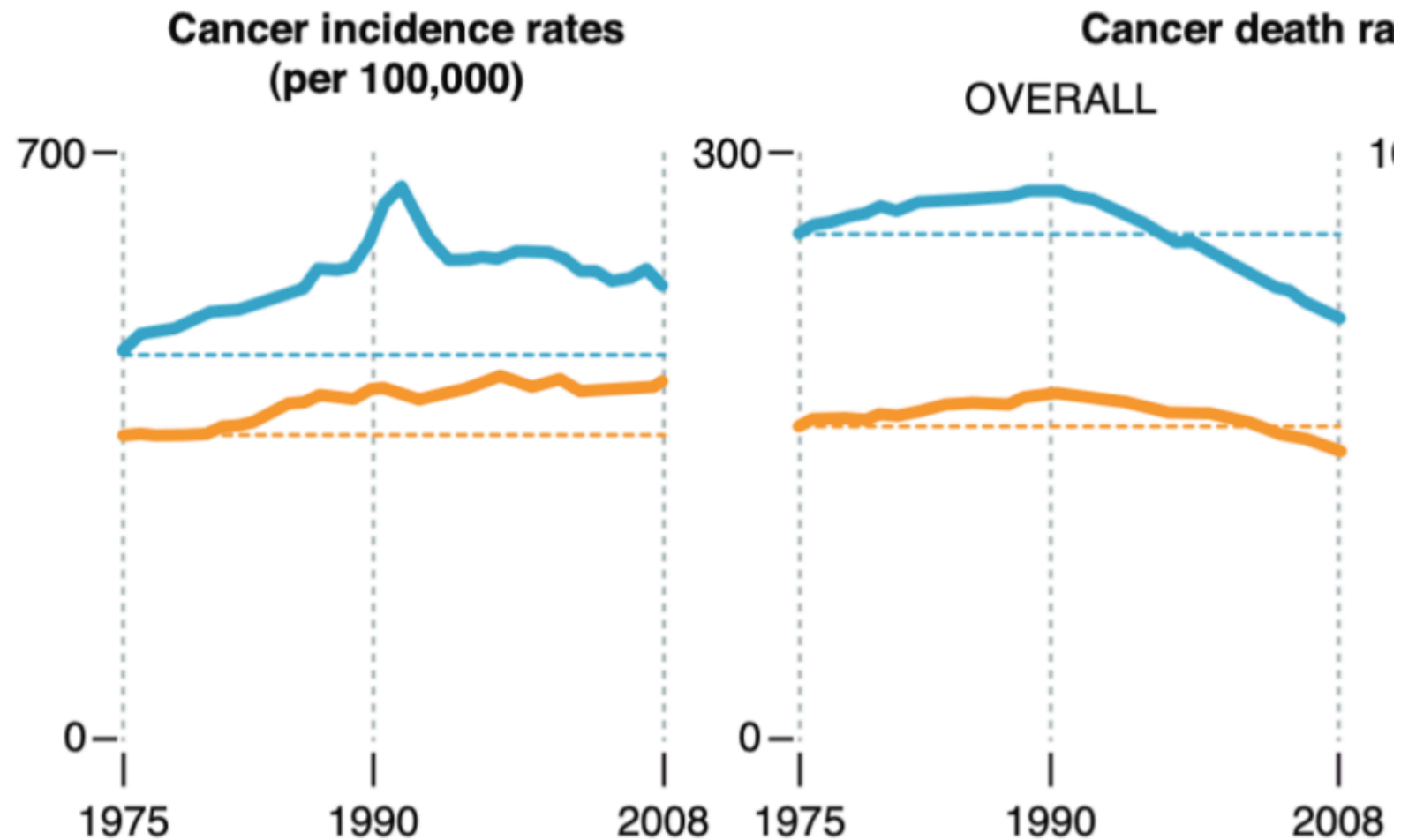
— Men — Women

1 Increased incidence

An aging population contributes to rising incidence of cancer.

2 Fewer deaths

Cancer deaths have been dropping since 1991, especially in males.

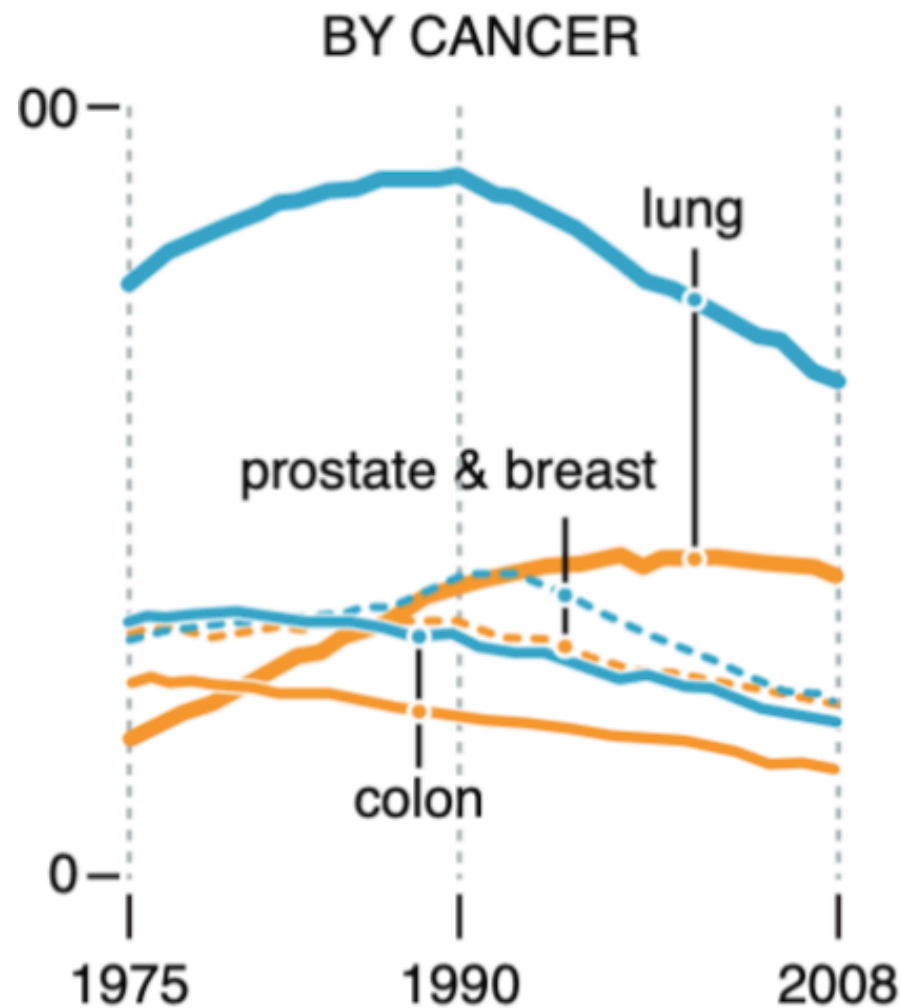


Konflikt

3 Decline of lung cancer

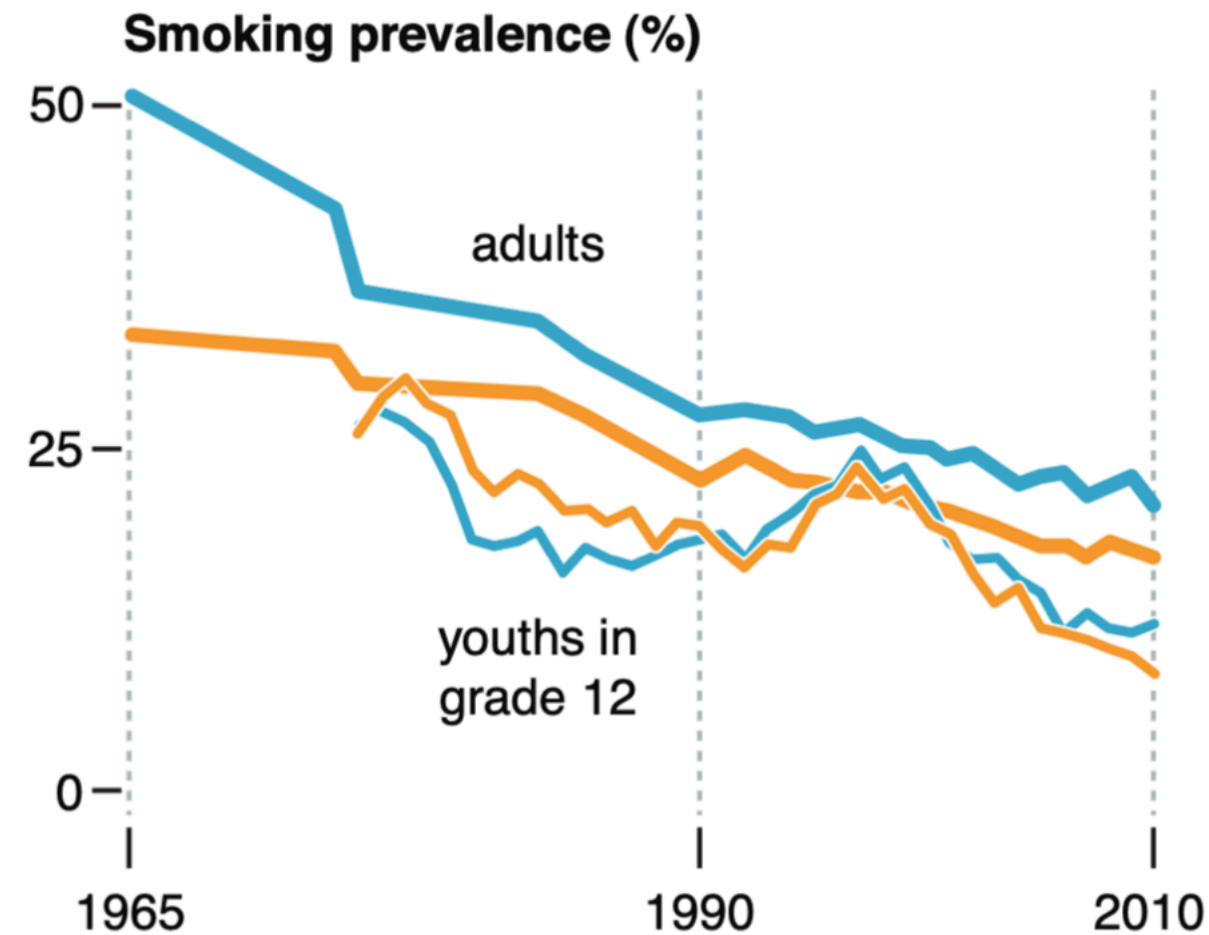
Drop in lung cancer deaths in males is the primary reason why death rates are down.

ates (per 100,000)



4 Decline in smoking

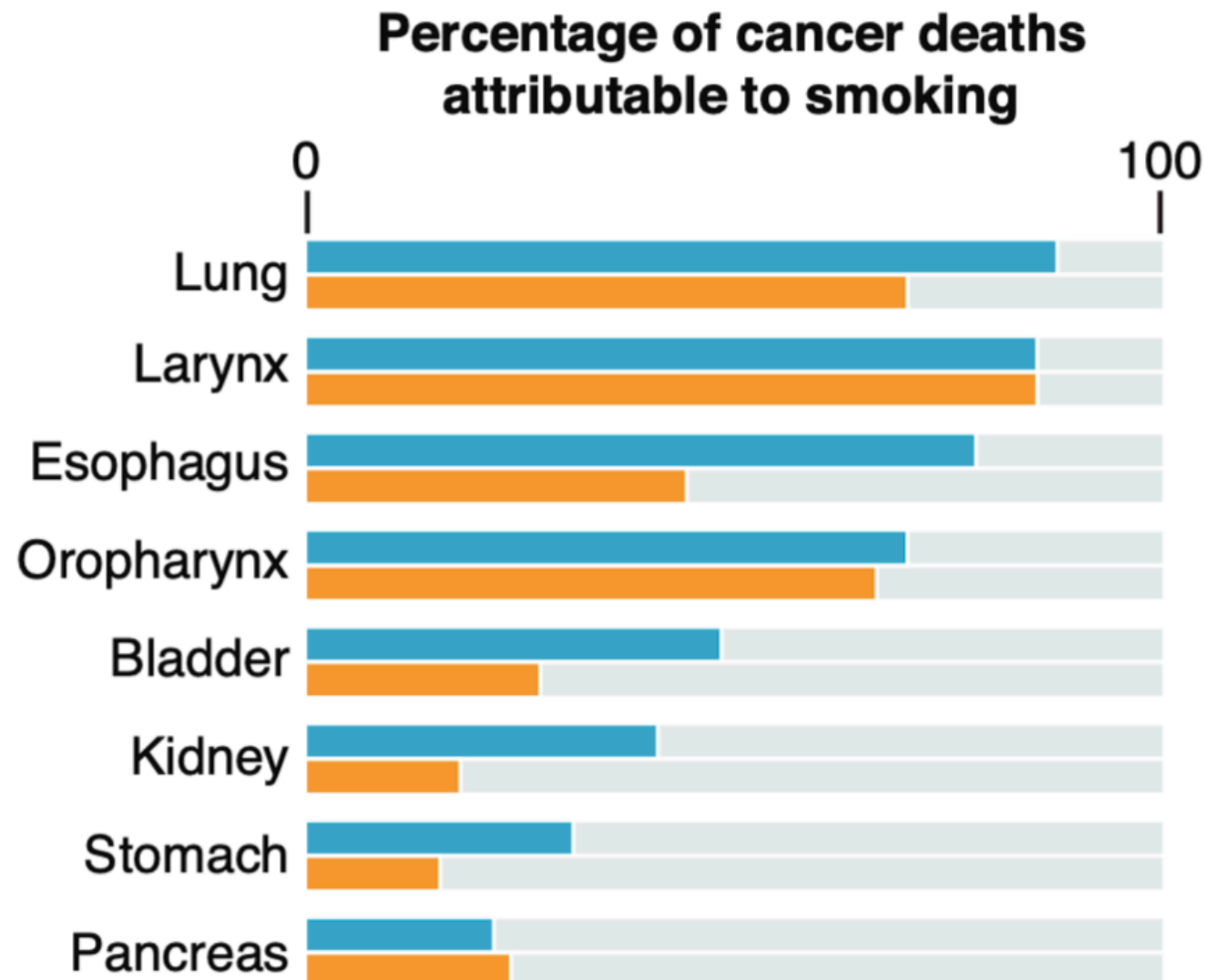
Since the 1964 first Surgeon General's report, smoking rates have been dropping. By 2010, the rate among males was down to 20%, from 50% at its peak. Among youths, rates have been on an even steeper decline since 1997.



Rozwiązanie

5 Impact of smoking on cancer deaths

Smoking is a major risk factor for many types of cancer and significant contributor to cancer-related deaths. It remains the single largest preventable cause of disease and premature death in the US.



WHERE THERE'S SMOKE—THERE'S CANCER

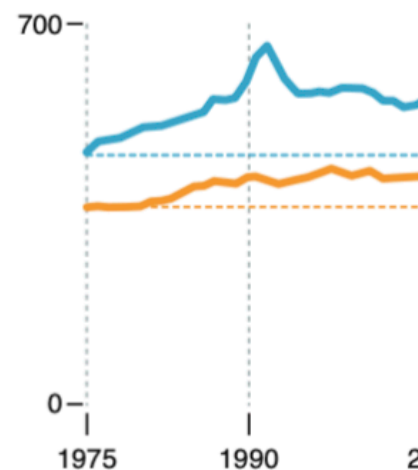
Cancer rates are up, but mortality is down. New diagnostics and treatments are responsible for part of this trend. But the greatest single contributing factor is the decline in smoking—rates are at their lowest level in 50 years.

Men Women

1 Increased incidence

An aging population contributes to rising incidence of cancer.

Cancer incidence rates (per 100,000)

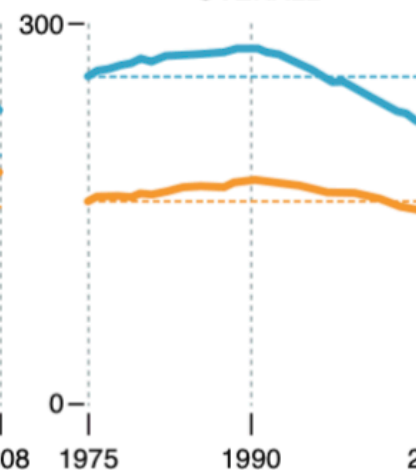


2 Fewer deaths

Cancer deaths have been dropping since 1991, especially in males.

Cancer death rates (per 100,000)

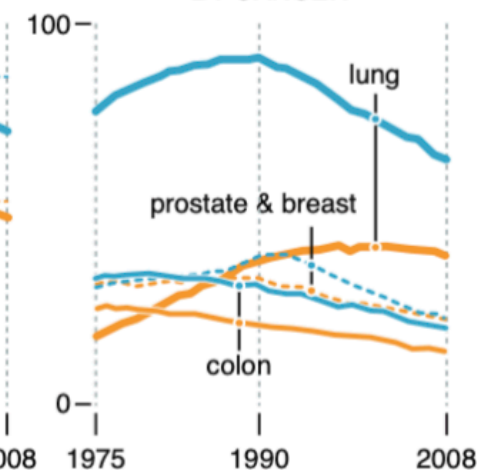
OVERALL



3 Decline of lung cancer

Drop in lung cancer deaths in males is the primary reason why death rates are down.

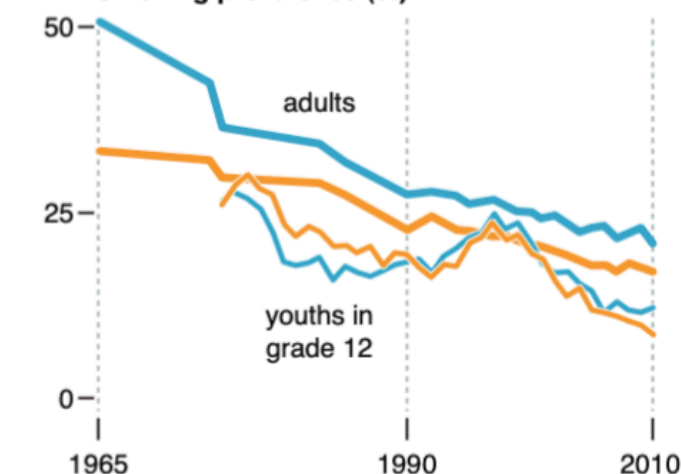
Cancer death rates (per 100,000)



4 Decline in smoking

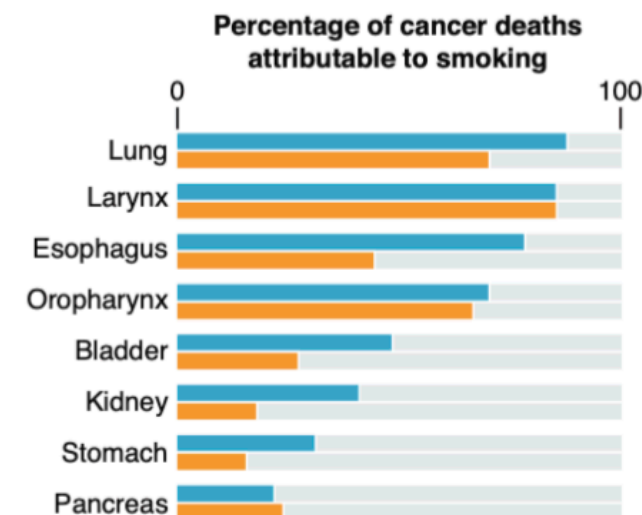
Since the 1964 first Surgeon General's report, smoking rates have been dropping. By 2010, the rate among males was down to 20%, from 50% at its peak. Among youths, rates have been on an even steeper decline since 1997.

Smoking prevalence (%)



5 Impact of smoking on cancer deaths

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source: American Cancer Society Cancer Statistics 2012; Monitoring the Future (University of Michigan).



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END

Bibliografia:

Nature America, Nature Methods vol. 10 no. 8 August 2013: Points of View Storytelling

[https://www.nature.com/articles/nmeth.2571.epdf?
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1Eg%3D%3D&tracking_referrer=blogs.nature.com](https://www.nature.com/articles/nmeth.2571.epdf?referrer_access_token=gn3JNsd8KoMDYDuR1EN179RgN0jAjWel9jnR3ZoTv0P0ml-WEs6hxd18ewg0woGkyBYvlckqwVtHiFJWlaTysem2Os4sahS5-ylrGRQl85CJZbVsX4zO-tNnOtY6RcR8vd2IK7QBjLgxxHJcgDV1dZ2Me26yl69ZNP6dpQQGg4Og3YyehuJgTwOtufPPHXMAVGDUyfVrWU8J9iTT4v6VjG4FJEUgoHtZo1CcuRCIVJLBbdIDNgEGHhawv67DsJyj6cpR0zDweW99kpYgVWI1Eg%3D%3D&tracking_referrer=blogs.nature.com)