ALBERTA'S CARBON TAX

The process, the lessons learned, and a look ahead





One of my rules: Always take calls from the government

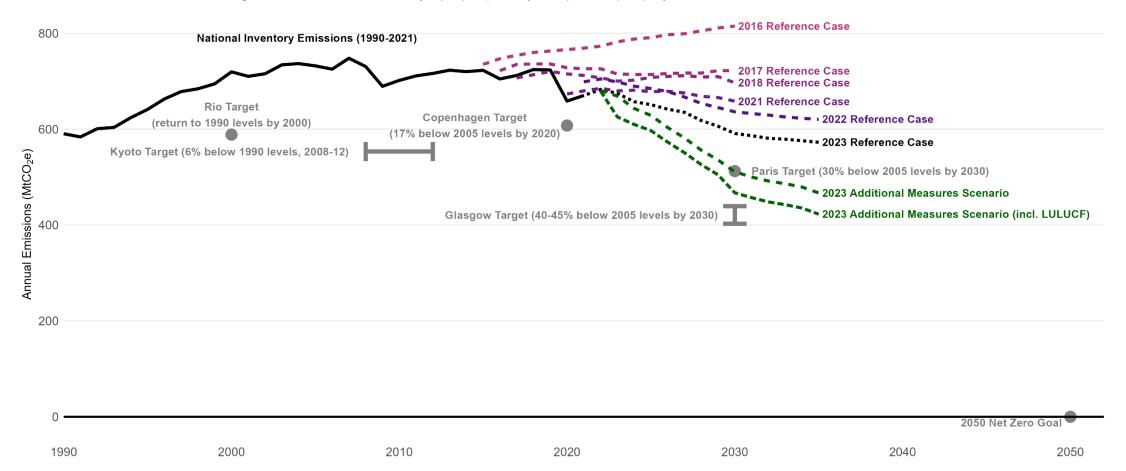




Our emissions and targets

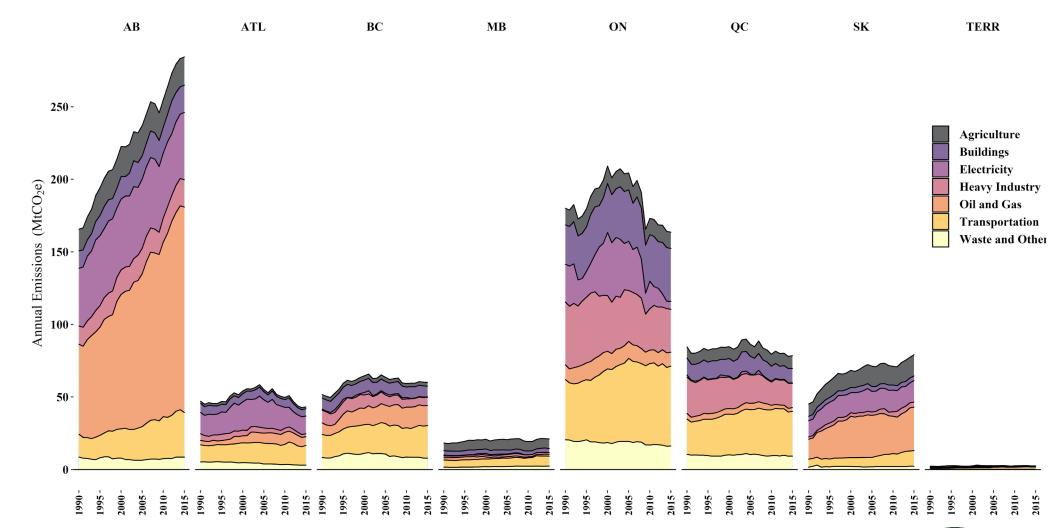
Canada's GHG Emissions, Projections and Future Targets

Source: Environment and Climate Change Canada National Emissions Inventory Report (2023) and Projections (2016-2023). Graph by Andrew Leach.



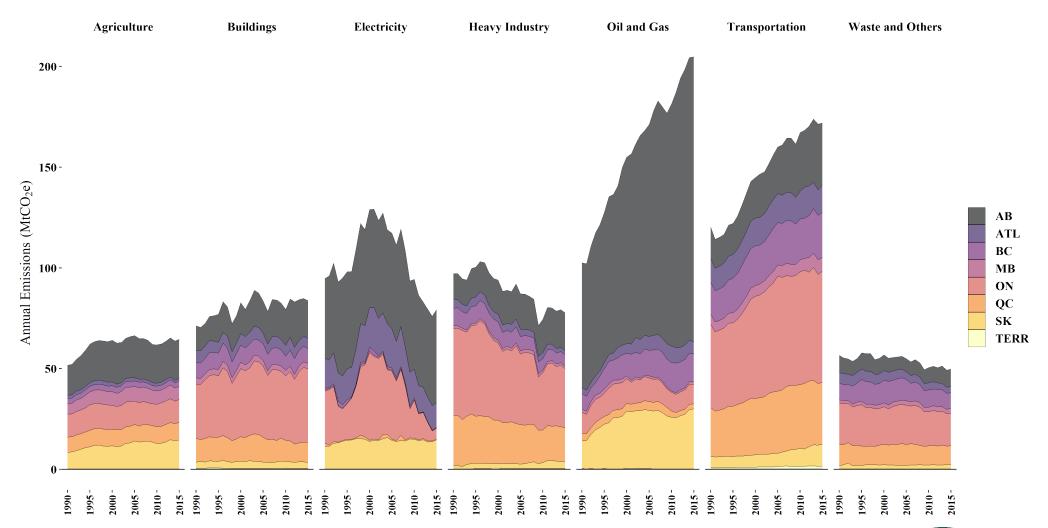


Canada's emissions by province in 2015





Canada's Emissions By Sector in 2015





The biggest issue in Alberta in 2015 was oil sands





How many people came to know of the oil sands



Opponents of the Keystone XL pipeline, which would move oil to the Gulf Coast, have protested at the White House for a week. J. Scott Applewhite/Associated Press

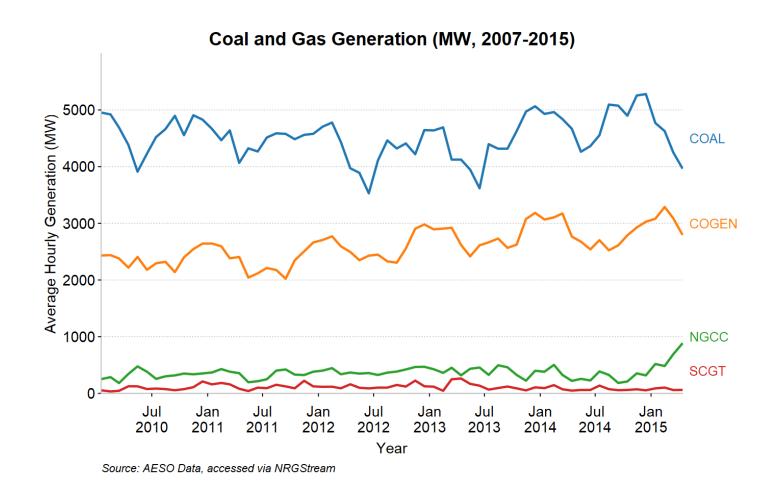


How many people came to know of the oil sands





What about electricity?





There was a federal election on the horizon





SO, I SAID NO

University role

Watching friends navigate similar roles

Lack of political alignment with the new government



THEN I SAID YES

When the Premier/Prime Minister calls, you say yes



AB Climate Policy Fundamentals

Main components of CLP policy package

- Carbon pricing was the backbone of the policy
 - \$30/tonne price increasing over time
 - Separate designs for consumers and large emitters
- Carbon-price-funded complementary policies
 - Incentives for renewable power with projected 30% renewable generation by 2030
 - Funding for energy efficiency initiatives and transit mode-shifting
 - Methane regulations with a goal of a 45% vents reduction by 2025
 - Coal power phased out by 2030
- Competitiveness protections
 - Output-based allocations for trade-exposed sectors and electricity
 - Opt-in for smaller emitters
- Consumer lump-sum, means-tested rebates
- 100 Mt cap on oil sands emissions



Carbon Levy and Carbon Competitiveness Regulation (CCIR)

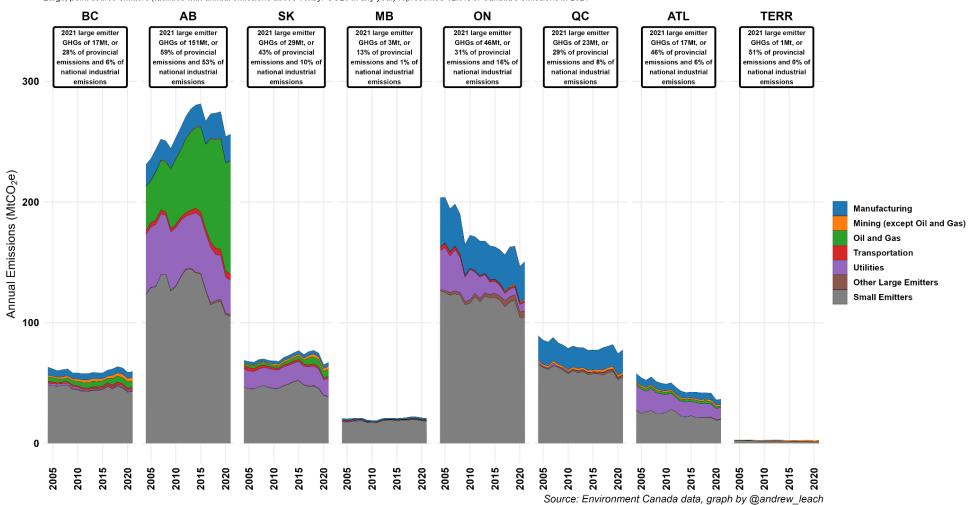
- An economy-wide carbon price starting at \$30/tonne in 2018
- Built on the existing SGER by:
 - Making it broader
 - Extended coverage from ~50% to ~80% of emissions
 - Making it better
 - Allocate permits based on sector-level benchmarks achieving competitiveness protection while not rewarding historic emissions
 - Making it progressive
 - Consumer rebates meant ~50% of Alberta households made better off in year 1.
- Being able to build on an existing carbon was a huge advantage



Why is an economy-wide approach so important for Alberta?

2004-2021 Emissions from Large Emitters and the Rest of the Economy

Large, point source emitters (facilities with annual emissions above 10kt/yr CO2e in any year) represented 42.6% of Canada's emissions in 2021









WHAT HAPPENED?



Federal policy



Source: Adam Scotti, PMO



There was lots of opposition



An Edmonton rally against Alberta's carbon tax, in December, 2016. (Zoe Todd/CBC)



And the provincial carbon tax was scrapped in 2019



introduced in the Legislature on Thursday, May 30. ED KAISER/POSTMEDIA NETWORK

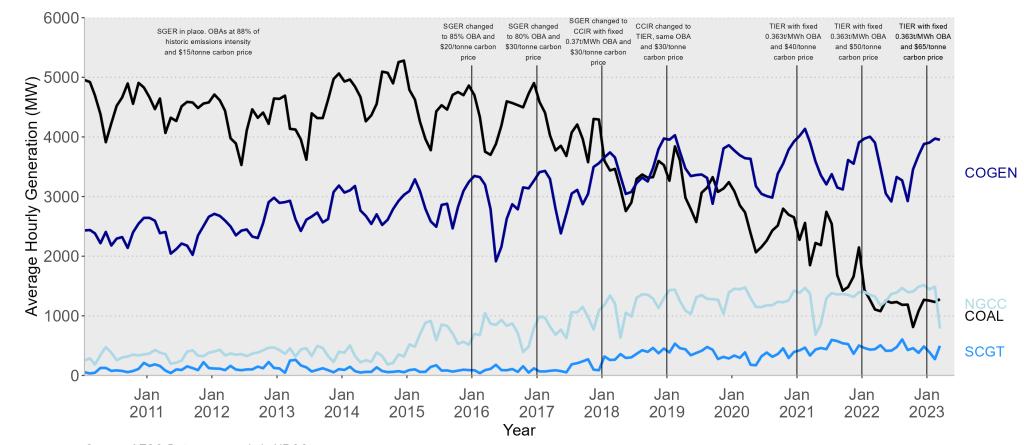


Despite the rhetoric, industrial carbon pricing remains under TIER





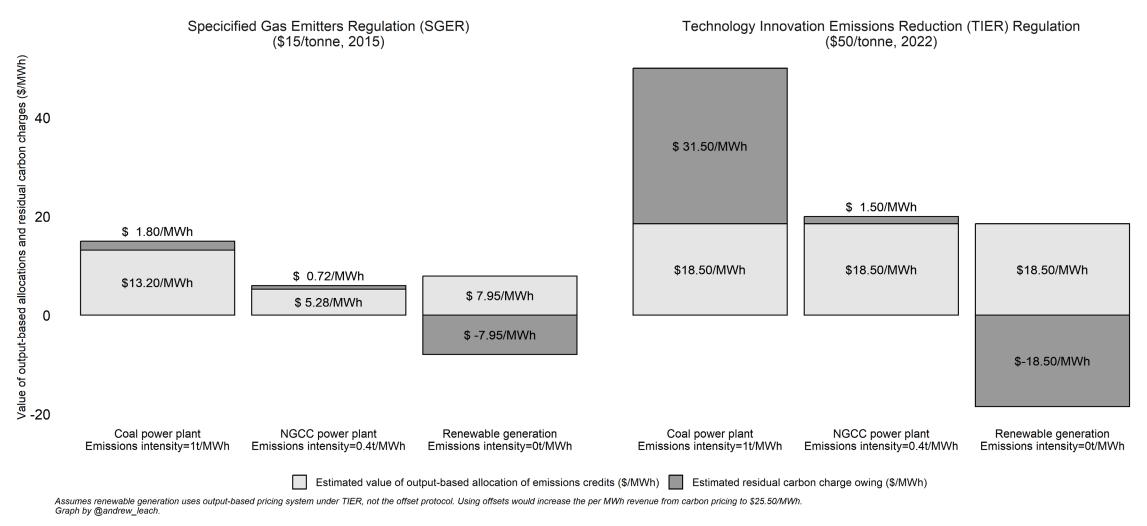
But evidence of big impacts in electricity



Source: AESO Data, accessed via NRGStream



The price really matters here:





WHAT WENT WRONG?

Is a carbon tax the right policy?

Doesn't the rebate destroy the effect of the carbon tax?

Overall economic malaise

Political circumstance



Do carbon taxes reduce emissions (enough)

In the House

Today will see debate on what's likely to be the final opposition day motion of the 42nd Parliament.

From Conservative environment critic Ed Fast:

That, given that the carbon tax will not reduce emissions at its current rate and it is already making life more expensive for Canadians, the House call on the government to repeal the carbon tax and replace it with a real environment plan.

Higher carbon taxes needed to meet Paris emission targets, PBO says

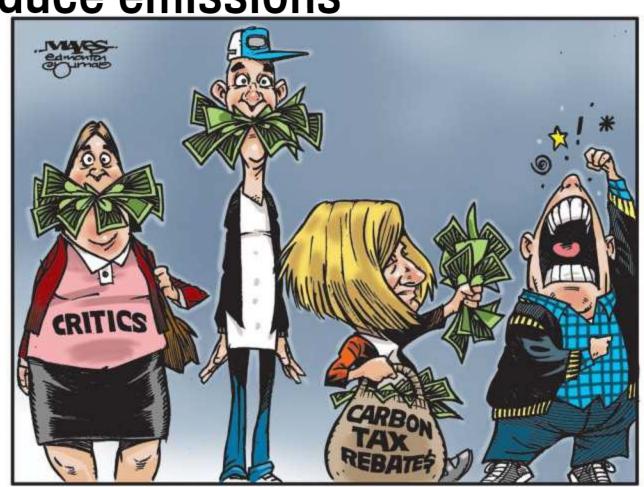
CANADIAN PRESS Updated: June 13, 2019



Misunderstanding of rebates was constant

David Staples: Unfair, unfocused NDP carbon tax unlikely to reduce emissions

DAVID STAPLES, EDMONTON JOURNAL Updated: January 11, 2017



And it provided great fodder for concern trolls



Pinned Tweet



Opponent: "Carbon taxes are regressive. Poor people will no longer be able to heat their homes."

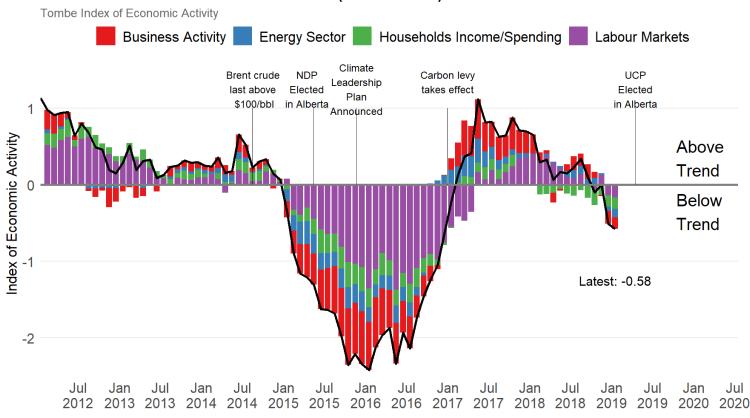
Me: "Here's a graph showing they're progressive and that almost all lower income households are better off."

Opponent: "see, carbon taxes are just a wealth redistribution scheme.



Tough Time to Implement Carbon Policy

Economic Conditions Index for Alberta (2012 to 2019)



Sources: Data from Statistics Canada, code via @trevortombe. Economic activity (GDP) is available only for Canada, not for individual provinces, at monthly frequencies. Instead, this index uses the 1st principal component from 41 monthly data series, as done for the Chicago Fed National Activity Index. The index is constructed to have mean zero and unit variance. A value of +1 means YoY growth is 1 standard deviation above trend.



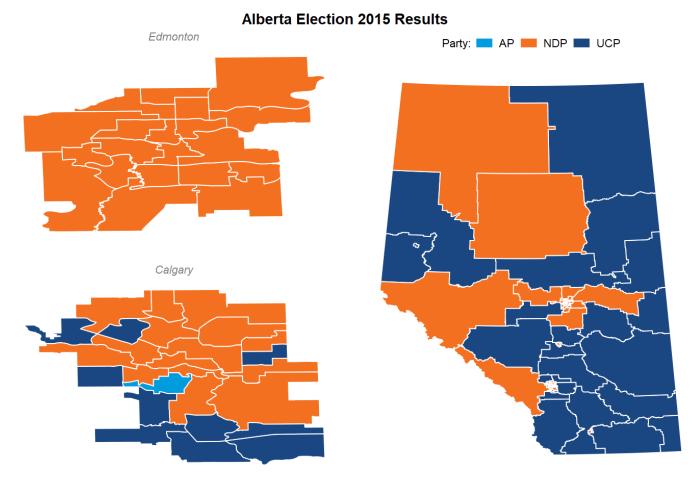
Was the carbon tax really on the ballot?



introduced in the Legislature on Thursday, May 30. ED KAISER/POSTMEDIA NETWORK



Did Alberta Really Vote Differently?

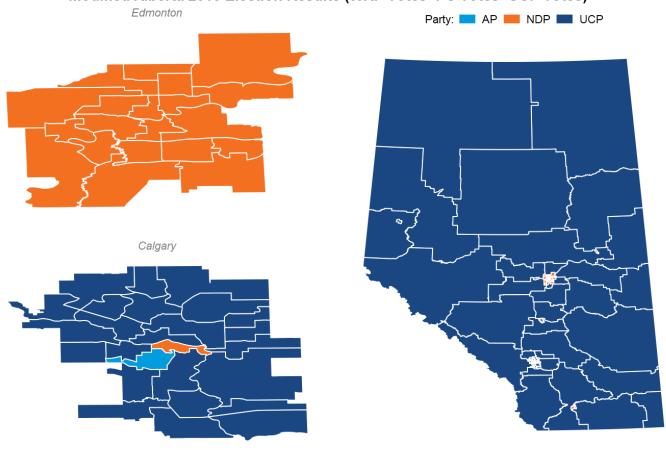


Source: Elections Alberta. 2015 data (UCP=WRP+PC) from Kyle Hutton (@kylejhutton). Graph by @trevortombe.



Did Alberta Really Vote Differently?

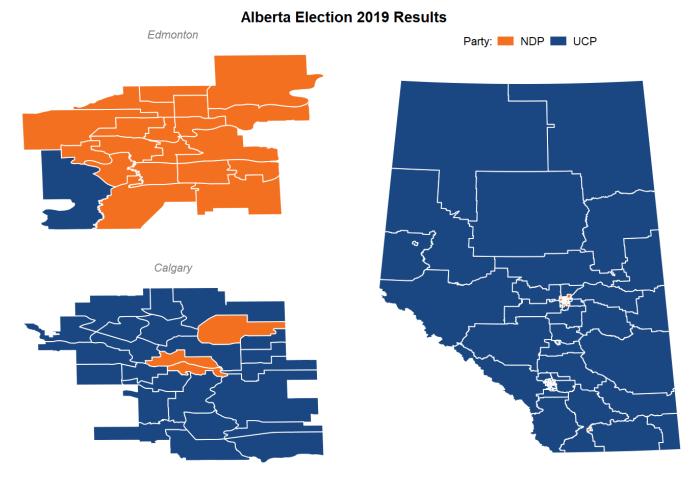
Modified Alberta 2015 Election Results (WRP votes+PC votes=UCP votes)



Source: Elections Alberta data, calculations by Andrew Leach. 2015 data from Kyle Hutton (@kylejhutton). Graph by Andrew Leach.



Did Alberta Really Vote Differently?



Source: Elections Alberta. 2019 data from Kyle Hutton (@kylejhutton). Graph by @andrew_leach.



What's next for Alberta?





What's next for Alberta: more fights over provincial jurisdiction

No. 40195

IN THE SUPREME COURT OF CANADA

(ON APPEAL FROM THE ALBERTA COURT OF APPEAL)

IN THE MATTER of An Act to enact the Impact Assessment Act and the Canadian Energy Regulator Act, to amend the Navigation Protection Act and to make consequential amendments to other Acts, SC 2019, c 28 and the Physical Activities Regulations, SOR/2019-285

AND IN THE MATTER of a Reference by the Lieutenant Governor in Council to the Court of Appeal of Alberta under the Judicature Act, RSA 2000, c J-2, s 26

BETWEEN:

ATTORNEY GENERAL OF CANADA

Appellant

- and -

ATTORNEY GENERAL OF ALBERTA

Respondent

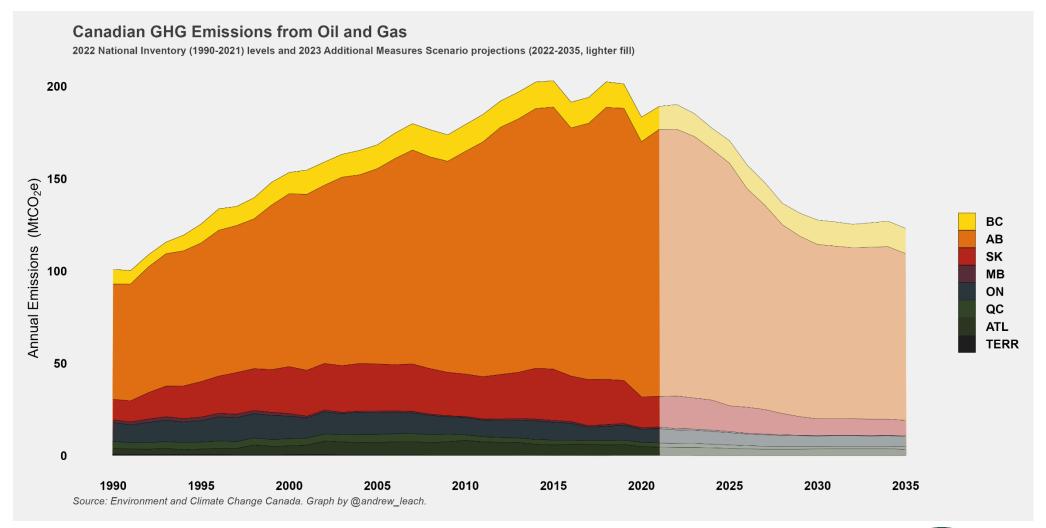
- and -(Title of proceedings continued on next page)

FACTUM OF THE APPELLANT
THE ATTORNEY GENERAL OF CANADA

(Pursuant to Rule 42 of the Rules of the Supreme Court of Canada, SOR/2002-156)



What's next for Alberta: a looming oil and gas cap





What's next for Alberta: a battle for the country





Wrap up

- You should definitely take the call
- Don't forget that government work is not like academic work peer review starts after your work is public
- Counterfactual analysis is challenging in a political arena
- Don't read too much into political outcomes
- Keep fighting for good policy



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