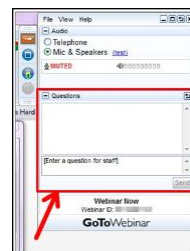




Have Questions?



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Lisa Gouwens, PhD
 Adjunct Lecturer, McKendree University,
 ACS Member for 7 years strong!

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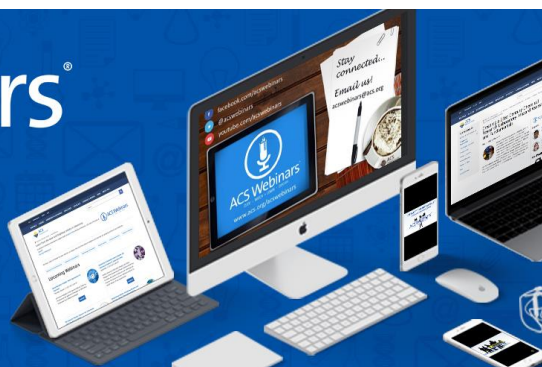
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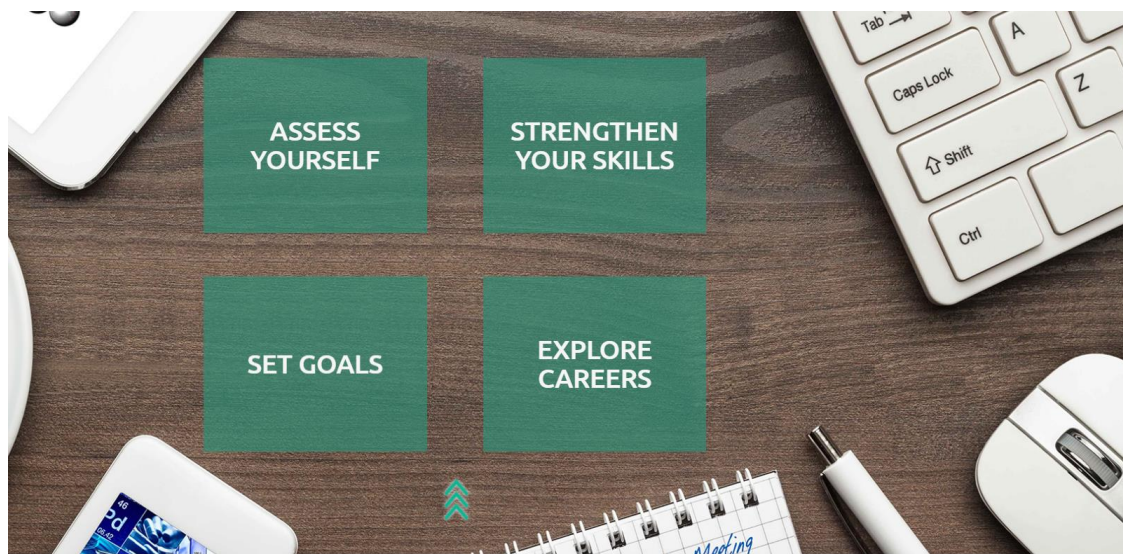
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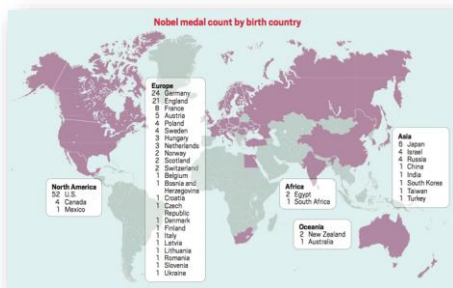


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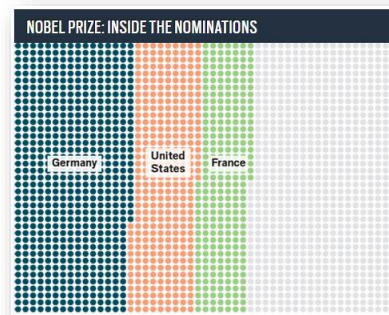
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Discover C&EN's interactive projects on the Nobel Prize in Chemistry!



Nobel Journeys

View our interactive maps showing integral locations in the lives of chemistry's laureates.



Nobel Nominations Database

The who's who of chemists involved in nominating the first 50 years of chemistry's Nobel Prize winners.

<https://cen.acs.org/sections/chemistry-nobels.html>

Discover C&EN's interactive projects on the Nobel Prize in Chemistry!



QUIZ Female Chemists Overlooked for a Nobel

Only about **3%** of the scientists to win a Nobel Prize have been women. Many feel that there's been plenty of important science carried out by females that #shouldawonaNobel.

Test your wits with the quizmasters at C&EN by matching the Nobel-worthy chemistry research with the woman who carried it out.

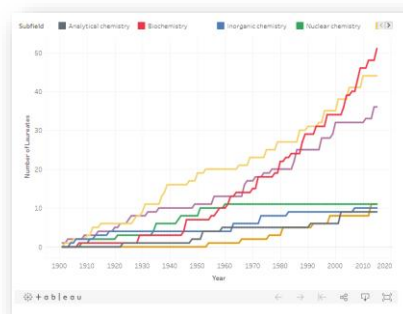


[Click to Begin](#)

Women Who Should Have Won

Read our story and test your knowledge of Nobel-worthy contributions from female chemists.

What Kind of Chemistry Wins?
Remind yourself which chemistry subdisciplines have historically won Nobel Prizes with our timeline.



<https://cen.acs.org/sections/chemistry-nobels.html>

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Experts



Jennifer Maclachlan
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Chris McCarthy
American Chemical Society



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Co-produced with the ACS Division of Chemical Health & Safety and the ACS Committee on Chemical Safety

Experts



Peter K. Dorhout
American Chemical Society



Dawn Mason
Eastman Chemical Company



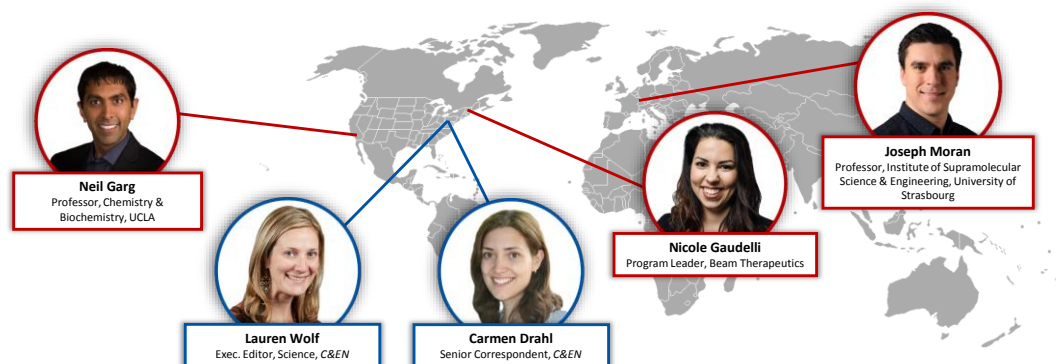
Dominick Casadonte
Texas Tech University



Kali Serrano
University of Illinois

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**“Who Will Win the #ChemNobel?
Predicting the Next Nobel Laureate(s) in Chemistry”**



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Who Will Win the #ChemNobel? Predicting the Next Nobel Laureate(s) in Chemistry

Share your comments in the webinar question window or tweet at us using the hashtag.



Neil Garg
UCLA
chem.ucla.edu
[@garglab](https://twitter.com/garglab)



Nicole Gaudelli
Beam Therapeutics
beamtx.com
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Joseph Moran
Univ. Strasbourg
moranlab.com
[@MoranLabUdS](https://twitter.com/MoranLabUdS)
C&EN Talented 12 Class of 2018

The #ChemNobel Committee

The Nobel Committee for Chemistry at the Royal Swedish Academy of Sciences is responsible for the **selection of candidates** for the Chemistry Prize from the names submitted for consideration by qualified nominators, who have been invited through formal letters...

The Committee members are **elected for a period of three years** from among the members of the Academy. In assessing the qualifications of the candidates, the Committee is assisted by specially appointed expert advisers.

Source: NobelPrize.org



Wikimedia Commons

Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

How much do you think the makeup of the Nobel Committee influences the subdiscipline that wins the Nobel Prize?

- A great deal
- Somewhat
- Not at all

Vote and then share your own answer with us in the webinar chat or on Twitter with the #ChemNobel hashtag!

What Does The #ChemNobel Committee Do?

September-October – Nomination forms are sent out. **The Nobel Committee sends out confidential forms to around 3,000 people** – selected professors at universities around the world, Nobel Laureates in Physics and Chemistry, and members of the Royal Swedish Academy of Sciences, among others.

February – **Deadline for submission of nominations**. The completed nomination forms must reach the Nobel Committee no later than 31 January of the following year. The Committee screens the nominations and selects the preliminary candidates. **About 250–350 scientists are nominated** as several nominators often submit the same name.

March-May – Consultation with experts. The **Nobel Committee evaluates preliminary candidates**, advised by specially appointed experts for their assessment of the candidates' work.

Source: NobelPrize.org

What Does The #ChemNobel Committee Do?

June-August – Writing of the report. The Nobel Committee puts together a **report with recommendations** to be submitted to the Academy. The report is signed by all members of the Committee.

September – Committee submits recommendations. The Nobel Committee submits its report with recommendations on the final candidates to the members of the Academy. The **report is discussed at two meetings** of the Chemistry Section of the Academy.

October – Nobel Laureates are chosen. In early October, the **Academy selects the Nobel Laureates in Chemistry** through a majority vote. The decision is final and without appeal. The names of the Nobel Laureates are then announced.

Source: NobelPrize.org

Meet the 2018 Nobel Chemistry Committee



Claes Gustafsson
Chair
Professor of medical biochemistry
University of Gothenburg



Peter Brzezinski
Professor of biochemistry & biophysics
Stockholm University



Sara Snogerup Linse
Professor of physical chemistry &
molecular protein science
Lund University



Olof Ramström
Professor of chemistry (organic chemistry)
KTH – Royal Institute of Technology
Stockholm



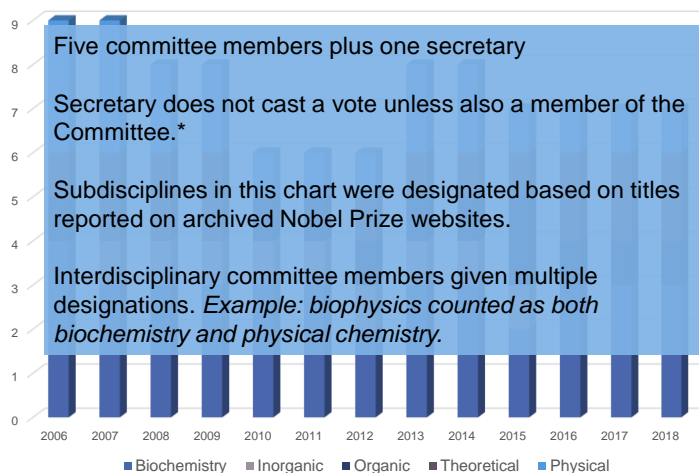
Johan Åqvist
Professor of cell & molecular biology
Uppsala University



Gunnar von Heijne
Secretary
Professor of theoretical chemistry
Stockholm University

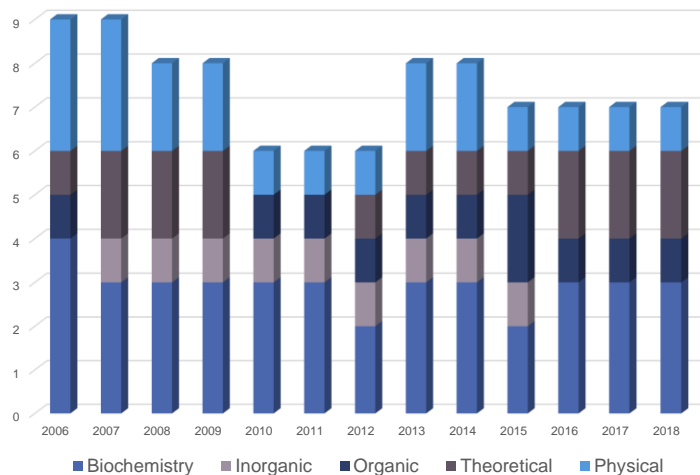
Source: Nobel.org/Listed institutions

Committee Subdisciplines 2006-2018



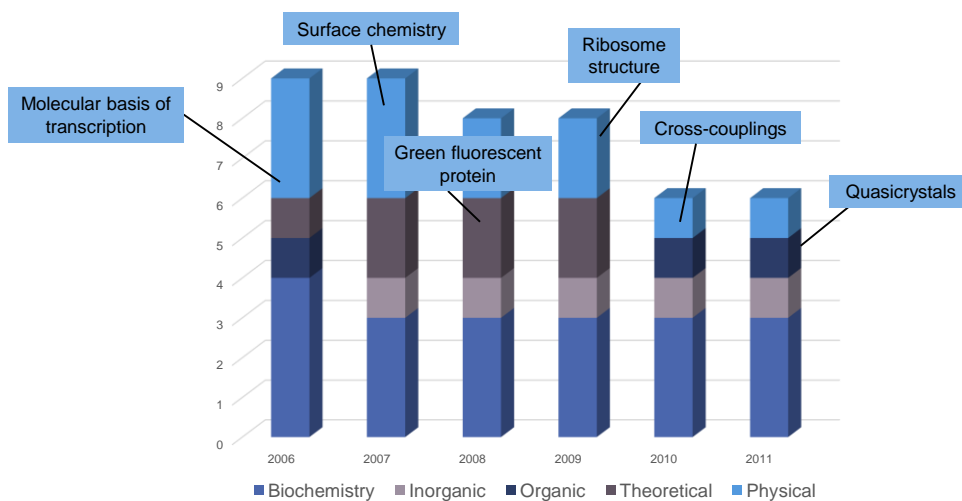
Sources: web.archive.org, *Wikipedia

Committee Subdisciplines 2006-2018



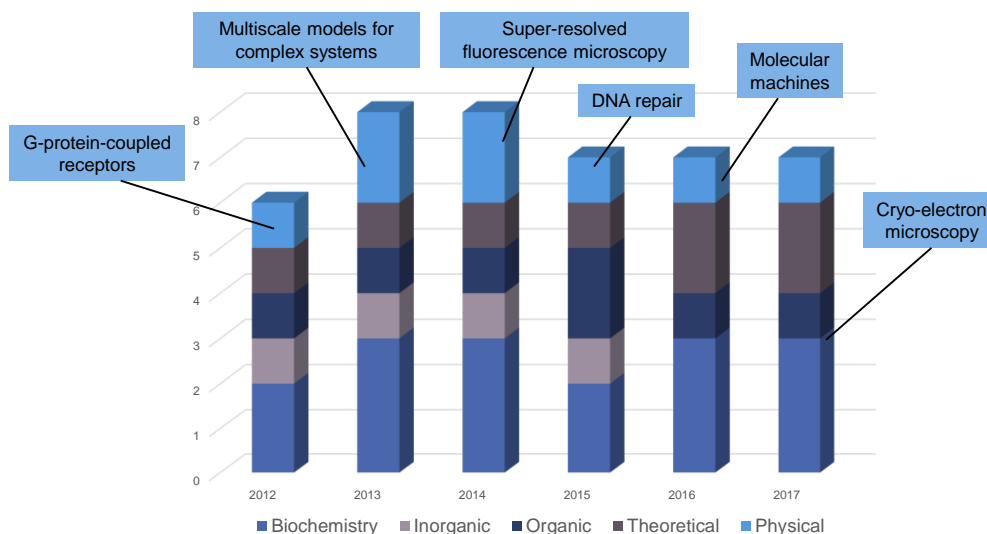
Source: web.archive.org

Committees And Prizes 2006-2011



Source: web.archive.org, nobelprize.org

Committees And Prizes 2012-2017



Source: web.archive.org, nobelprize.org

Audience Survey Question

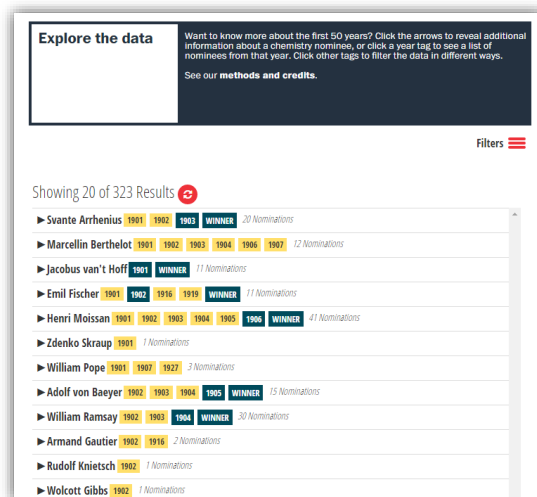
ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



How much time do you think should elapse between a big discovery and that discovery winning a Nobel Prize?

- Less than 5 years
- 5-10 years
- 11-20 years
- Greater than 20 years

The #ChemNobel Nominations Database



<http://cen.acs.org/nobel-data.html>



Neil's 2018 #ChemNobel Pick



Robert G. Bergman
University of California, Berkeley

-and others-



For pioneering discoveries in catalytic C-H functionalization

"The catalytic (and selective) C-H functionalization of organic compounds has transformed from being a pipe dream into chemistry that is now widely used in academia and in drug discovery efforts." – Neil Garg



Nicole's 2018 #ChemNobel Pick

Robert Koch Foundation



Christopher T. Walsh
Harvard Medical School

For chemical biology, natural product, and antibiotic advances

"Due to the current widespread prevalence of multidrug resistant bacteria across the globe, the importance of discovering and understanding how antibiotics are biosynthesized cannot be overemphasized."— Nicole Gaudelli



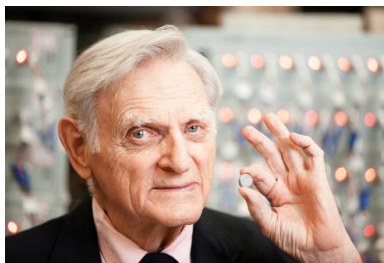
Joseph's 2018 #ChemNobel Pick

Binghamton University



Stanley Whittingham
Binghamton University

UT Austin



John B. Goodenough
University of Texas at Austin

Asahi Kasei Corp.



Akira Yoshino
Asahi Kasei Corp.
LIBTEC

For the invention and development of Li-ion batteries



Carmen's 2018 #ChemNobel Pick

Kate Chesley/Stanford News



Karl Deisseroth
Stanford University

-and others-



For innovative optical tools that have shed unprecedented light on the brain

“Activating neurons in a lab setting can reveal what they do and how they connect. Optogenetics does this with the precision of tweezers where prior tools were like sledgehammers.”– Carmen Drahl



Lauren's 2018 #ChemNobel Pick

Yale University



Arthur L. Horwich
Yale University

Max Planck Institute



Franz-Ulrich Hartl
Max Planck Institute of Biochemistry

For discovering chaperone proteins guide protein folding

“Given what we're learning about neurodegenerative and other diseases, protein folding is more important than ever. And it's a fundamental discovery that still hasn't been recognized.”– Lauren Wolf

Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



In your opinion who will win the 2018 Nobel Prize in Chemistry?

- Robert Bergman and others, for catalytic C-H functionalization
- Christopher Walsh, for chemical biology, natural product, and antibiotic advances
- John Goodenough, Stanley Whittingham, and Akira Yoshino, for lithium-ion batteries
- Karl Deisseroth and others, for brain imaging tools
- Arthur Horwich and Franz-Ulrich Hartl, for chaperone proteins
- * Other (Tell more us in the chat)

Vote for which one of these you think is most likely to claim the Nobel, then share your own picks in the chat box or on Twitter with the #ChemNobel hashtag.

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Discover C&EN's coverage on Oct. 3, 2018, the day of the #ChemNobel Prize!

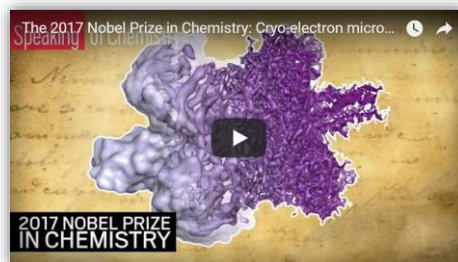


News Coverage

C&EN will cover the Nobel announcement as soon as the news breaks.

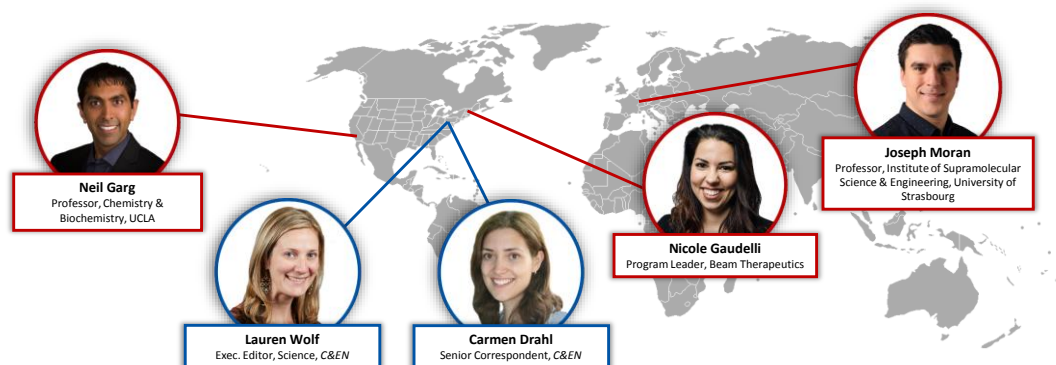
Nobel Prize Video Explainer

The Speaking of Chemistry team will give you the lowdown on 2018's #ChemNobel – prizewinning research.



<https://cen.acs.org/sections/chemistry-nobels.html>

“Who Will Win the #ChemNobel?”
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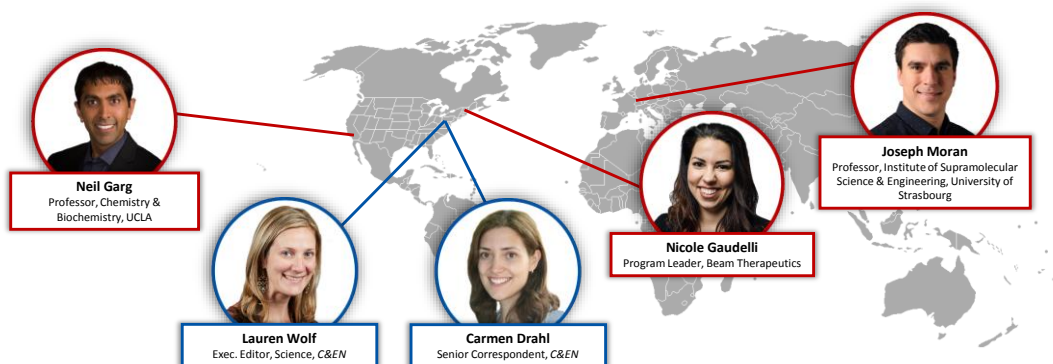
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Lisa Gouwens, PhD
 Adjunct Lecturer, McKendree University,
 ACS Member for 7 years strong!

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