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## Common LOINC Result and Order Codes



### Get LOINCing fast.

We know you want to hit the ground running, so we've created a few lists that help focus on some low hanging fruit. With help from the LOINC community, we've compiled three data-driven lists to jump start your standardization effort: a list of the most common result codes and mapping advice to go with it, a collection of common order codes, and a starter set of UCUM codes (for those of you brave enough to standardize your units of measure).



You can get them all right here.

### Top 2000 Results

Get started with an empirical list of the most frequently used LOINC result codes.  
Expert mapping advice included.

[Top 2000 Results plus Mapper's Guide](#)



### Top 300 Orders

A super short list of LOINC codes covering >95% of U.S. lab orders.  
Empirically derived and vetted by consensus.

[Top 300 Orders](#)



### Common UCUM Codes

Lost with UCUM?  
This list makes it easy for your typical reporting units of measure.

[Example UCUM Codes for Electronic Messaging](#)



### Current Versions

#### LOINC 2.40

Released: 2012-06-30

#### RELMA 5.8

Released: 2012-06-30

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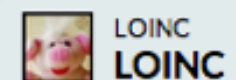
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## LOINC MAPPER'S GUIDE TO TOP 2000+ LAB TESTS v1.0a

SORT BY: Class Override >System  
Adjusted > Long Common Name

	B	C	E	F	G	H	I	P
1	LOINC #	Long Common Name	Class Override	Rank	Example UCUM	Example UCUM Display	Comment	System Adjusted
126	<b>Antibacterial susceptibility</b>							
	<p>The statistics for antibiotic susceptibility tests in the Top 2000 List are not as broadly based as most of the other test categories, because antibiotic susceptibilities were available from only one of our 3 sources.</p> <p>LOINC provides codes for antibiotic susceptibility testing based on method used. The four major categories are as follows:</p> <ol style="list-style-type: none"> <li>1) A general flavor that does not specify the method of testing used</li> <li>2) Minimum Inhibitory Concentrations (MIC)</li> <li>3) Kirby Bauer disc testing (KB) and</li> <li>4) Gradient strip (E-test)</li> </ol> <p>The general flavor can be used to report results for any of the three more specific approaches (Kirby Bauer, MIC or E-test susceptibilities) assuming that the details regarding the method of testing is provided elsewhere in the messages or in other OBX segments.</p> <p>The majority of the antibiotic susceptibility tests that made it into the top 2000 list are of this general flavor type, but a few MIC tests and gradient strip LOINC codes also appear. In case your laboratory prefers the more specific codes for the antibiotics listed here, you can find them under the Antibiotic susceptibility class in the full LOINC database.</p> <p>Some of the antibiotics used to treat tuberculosis are also used to treat more common bacterial infections. LOINC provides specific codes for reporting antibiotic susceptibilities to slow growing Mycobacteria – such as M.tuberculosis, M.avium and M.intracellular, and these codes should be used for reporting antibiotic susceptibilities for such bacteria. These codes can be identified by the phrase “slow growing mycobacteria” in the method part of the LOINC name. Antibiotic susceptibilities to a fast growing mycobacteria can be reported under the same codes as any other bacteria.</p>							
127								
128	13317-3	Methicillin resistant Staphylococcus aureus [Presence] in Unspecified specimen by Organism specific culture	Antibacterial susceptibility	146			Methicillin Resistant Staphlocuss via culture--	Any
129	18860-7	Amikacin [Susceptibility]	Antibacterial susceptibility	414				Isolate
130	18862-3	Amoxicillin+Clavulanate [Susceptibility]	Antibacterial susceptibility	549				Isolate
131	18864-9	Ampicillin [Susceptibility]	Antibacterial susceptibility	331				Isolate
132	18865-6	Ampicillin+Sulbactam [Susceptibility]	Antibacterial susceptibility	330				Isolate
133	18868-0	Aztreonam [Susceptibility]	Antibacterial	454				Isolate



[loinc.org/terms-of-use](http://loinc.org/terms-of-use)



Copyright is  
for losers©™

RCR





Just kidding.

Copyright is a *good* thing for standards.

It's the licensing part that is interesting.



**No cost**  
**Worldwide**  
**In perpetuity**



**Use**

**Copy**

**Distribute**

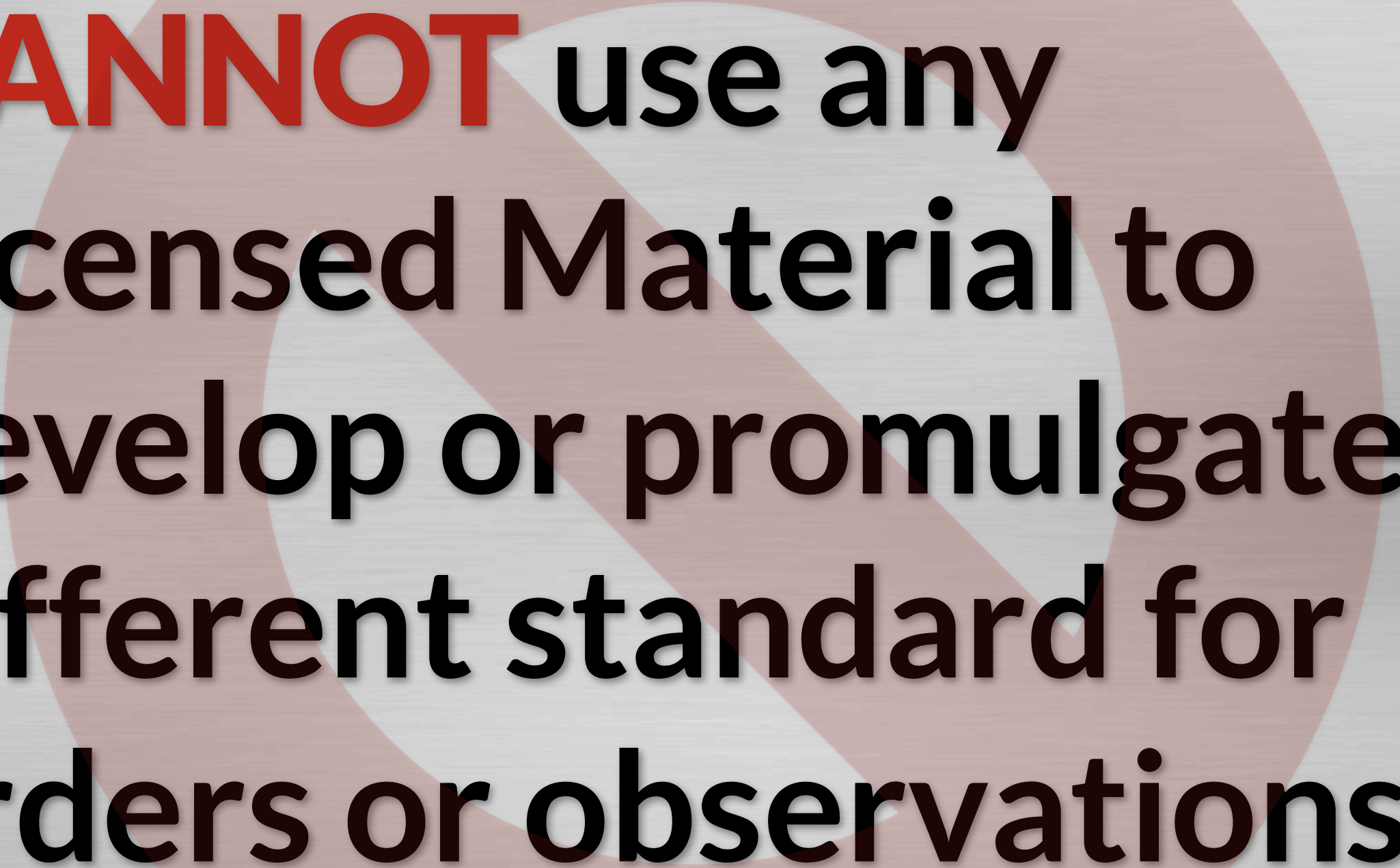




A hand is holding a very thick stack of US dollar bills, likely \$100 bills, which are fanned out. A single bill is visible on the front, showing the number '671735'. The background is a textured, light-colored surface.

**Any purpose:  
commercial  
non-commercial**





**CANNOT** use any  
Licensed Material to  
develop or promulgate a  
different standard for  
orders or observations.



**That would defeat  
the purpose of  
having a standard!**





# **International Adoption**

**participation, translation, implementation**



# LOINC Submitters



Since 2009:  
105 organizations from 15 countries



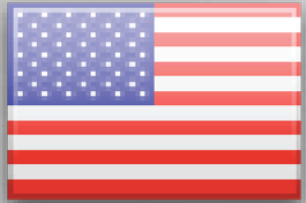
# LOINC Translators

22 organizations



# How do *you* say glucose?

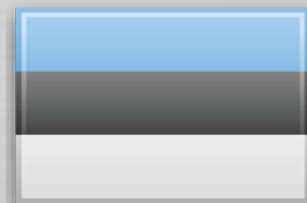
Glucose



葡萄糖



Glükoos



Glucose



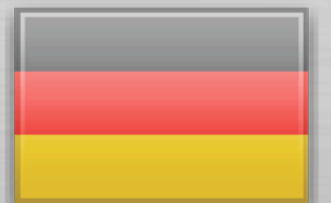
Glucose



Gluc|kose



Glukose



# LOINC

the *lingua franca* of clinical observation exchange



Γλυκόζη



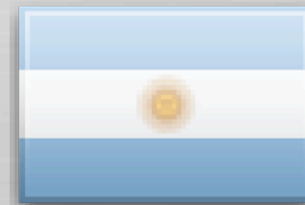
Glucosio



포도당



Glicose



Glucosa


























































Glucosa



Glucosa



## Available Linguistic Variants

		Display	Searchable	Documentation	Other Resources
	<a href="#">Chinese (China)</a>				
	<a href="#">Estonian (Estonia)</a>				
	<a href="#">English (United States) - Official Distribution</a>				
	<a href="#">French (Canada)</a>				
	<a href="#">French (France)</a>				
	<a href="#">French (Switzerland)</a>				
	<a href="#">German (Germany)</a>				
	<a href="#">German (Switzerland)</a>				
	<a href="#">Greek (Greece)</a>				
	<a href="#">Italian (Italy)</a>				
	<a href="#">Italian (Switzerland)</a>				
	<a href="#">Korean (Korea, Republic of)</a>				
	<a href="#">Portuguese (Brazil) - Draft</a>				
	<a href="#">Spanish (Argentina)</a>				
	<a href="#">Spanish (Mexico)</a>				
	<a href="#">Spanish (Spain)</a>				
	<a href="#">Turkish (Turkey)</a>				

# Adopted as National Standard

Australia

Brazil

Canada

Cyprus

Estonia

France

Germany

Mexico

Mongolia

The Netherlands

Rwanda

Thailand

Turkey

United States





# Large Implementations

SIGA Saúde project

Canada Health Infoway

ePSOS

Assistance publique - Hôpitaux de Paris

BiTAC

Hong Kong Hospital Authority

Philippine Health Insurance Corporation

*Many more...*



Some serious LOLNCing in Hong Kong





Talking about LOINC at the Thai Ministry of  
Information and Communication Technology





# Key Lessons for Today



**We're looking for computer engineers who like to solve difficult problems.**

**Call us on this number now:**

x=24, y=30  
Phone:=01.(y<sup>2</sup>.x).(y<sup>2</sup>.10<sup>3</sup>)x10

x=24, y=30  
Phone:=01.(y<sup>2</sup>.x).(y<sup>2</sup>.10<sup>3</sup>)x10

x=24, y=30  
Phone:=01.(y<sup>2</sup>.x).(y<sup>2</sup>.10<sup>3</sup>)x10

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x=24, y=30  
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x=24, y=30  
Phone:=01.(y<sup>2</sup>.x).(y<sup>2</sup>.10<sup>3</sup>)x10

Not just an I.T. problem



# If Murky, Don't Assume

Units of measure are critical.

Sample results can help identify the correct LOINC Scale.

Local experts, package inserts can be very informative.



A fly fisherman in a waders and hat stands in a river, casting a line. The background is a dense forest with trees in vibrant autumn colors of yellow, orange, and green. The water is calm with some ripples.

**Upstream standardization.  
Ask instrument or test kit  
manufacturers.**



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## Next Generation IVD Connectivity

### MEET IICC

### BUILDING CONSENSUS

### CREATING SOLUTIONS

### GENERATING MOMENTUM

"Today's clinical labs and their vendors—the IVD industry—spend a great deal of time and money connecting analyzers and IT systems to one another. IICC unites the stakeholders around a common goal—to solve our shared problem through modern connectivity technology."

*Eric Olson, President, IICC, and Vice President, Automation & IT, Siemens Healthcare Diagnostics* [MORE >](#)

"The current explosion of healthcare information technology (HIT) will continue to heavily impact healthcare in the foreseeable future. Modernizing instrument interface and interoperability standards will integrate the clinical lab into the mainstream of this health information flow."

*Jay B. Jones, PhD, DABCC, Board Member and Chair of the Provider Review Committee, IICC, and Director, Chemistry & Regional Labs, Geisinger Health System* [MORE >](#)

### Founding Members



### Connect with us GET INVOLVED

[Connectathon 2012](#)

[LAW profile officially released](#)

[IHE Europe and IICC Joint Release](#)

**A journey.**

***Not a destination.***





# Ongoing Journey

Plan for updating as your *testing changes* (less common), or your *local code identifiers change* (more common).



# Prioritization

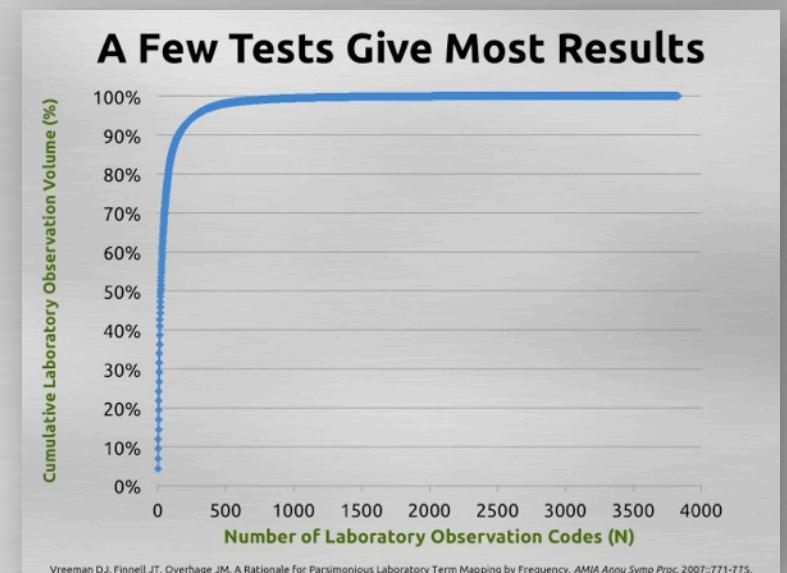
Local or national policies may help prioritize mapping subsets.

For example:

common results

+ panel elements

+ public health reportable tests





# Jump In!



photo via [Justin Ornellas](#)



# The Race is On!

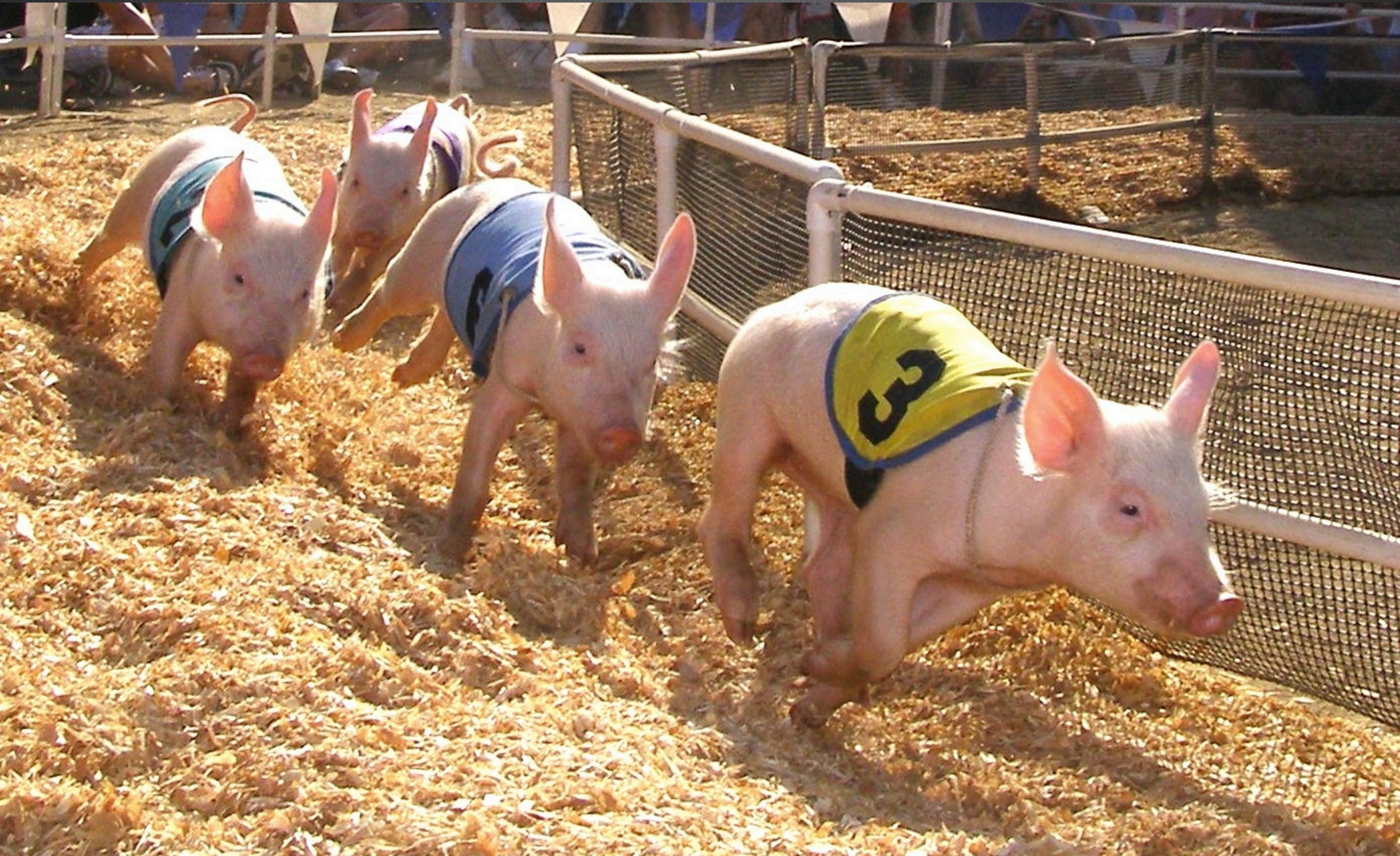


photo via [ryarwood](#)

# Happy LOINCing!