

Doreen Green isn't just a First-year computer science student: she secretly also has all the powers of both squirrel and girl! She uses her amazing abilities to fight crime and be as awesome as possible. You know her as...*The Unbeatable Squirrel Girl!* Let's catch up with what she's been up to until now, with...

# Squirrel Girl *in a nutshell*



**Squirrel Girl!** @unbeatablesg  
PUBLIC SERVICE ANNOUNCEMENT: Everyone should go to the zoo and talk to every animal there. Just go and chat up every animal!



**Squirrel Girl!** @unbeatablesg  
Because how do you know you CAN'T talk to animals unless you've tried with every animal?? And they've got lots of animals there!



**Squirrel Girl!** @unbeatablesg  
Also yes I am aware that there are elements of zoos that are NOT UNPROBLEMATIC but where else are you gonna chat up mad lemurs



**Squirrel Girl!** @unbeatablesg  
Besides Madagascar I mean



**Tippy-Toe** @yoitstippytoe  
@unbeatablesg CHITTT CHITTY CHIT CHIT



**Squirrel Girl!** @unbeatablesg  
@yoitstippytoe dude, I meant "mad lemurs" in the "lots of lemurs" sense, not that they're angry! The zoo ones were actually mostly sleepy



**Squirrel Girl!** @unbeatablesg  
@yoitstippytoe lots of sleepy lemurs to be had at your local zoo, visit today



**Nancy W.** @sewwiththeflo  
I was at the zoo yesterday when the lions got out and this "Girl Squirrel" saved everyone.



**Nancy W.** @sewwiththeflo  
As near as I can tell she is a squirrel with the INVERSE proportional strength of a girl? Or something?



**Nancy W.** @sewwiththeflo  
What even is biology, you guys.



**Nancy W.** @sewwiththeflo  
How do bodies even work.



**Nancy W.** @sewwiththeflo  
Local woman publicly questions how a squirrel can have the powers of a girl. Vets hate me.



**Tony Stark** @starkmantony  
@unbeatablesg Getting reports of fights breaking out all over NYC. Can I assume you are on this?



**Squirrel Girl!** @unbeatablesg  
@starkmantony uh can you assume it's like 6:30am here and i just woke up



**Tony Stark** @starkmantony  
@unbeatablesg My post woke you up? Huh. You have a special notification sound for me, don't you.



**Squirrel Girl!** @unbeatablesg  
@starkmantony um, YEAH, it's your old 60s-style PERSONAL JINGLE that you hoped we'd all just forgot about and it's AMAZING



**Squirrel Girl!** @unbeatablesg  
@starkmantony 🎵 Tony Stark / Makes you feel / He's the cool exec / With a heart of steel 🎵



**Tony Stark** @starkmantony  
@unbeatablesg Hold on a second.



**Tony Stark** @starkmantony  
@unbeatablesg I just remotely erased that song from your phone and from every other mirror online.



**Squirrel Girl!** @unbeatablesg  
@starkmantony 🎵 Tony Stark / Makes me feel / That I'm super glad / That I backed up that song to a device not connected to the internet 🎵



**Squirrel Girl!** @unbeatablesg  
Hey I dunno if any criminals follow me but JUST IN CASE, you should know that KOI BOI and CHIPMUNK HUNK are fighting crime now too!



**Squirrel Girl!** @unbeatablesg  
Also if you are a criminal please stop doing crimes. #crimeadvice

search!



#databasesonephone

#databasesoneohFUN

#dontthrowshadeonmyfriends

#breakfastbeats

#boythor

Bostonian Cameos

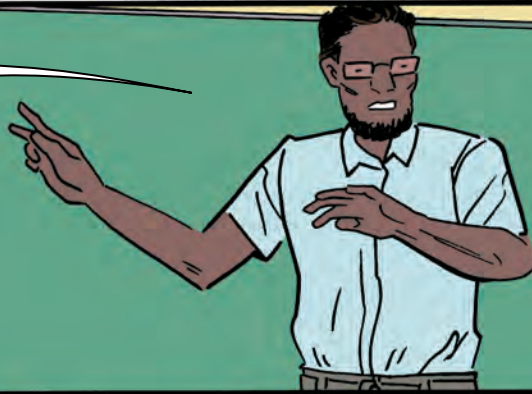
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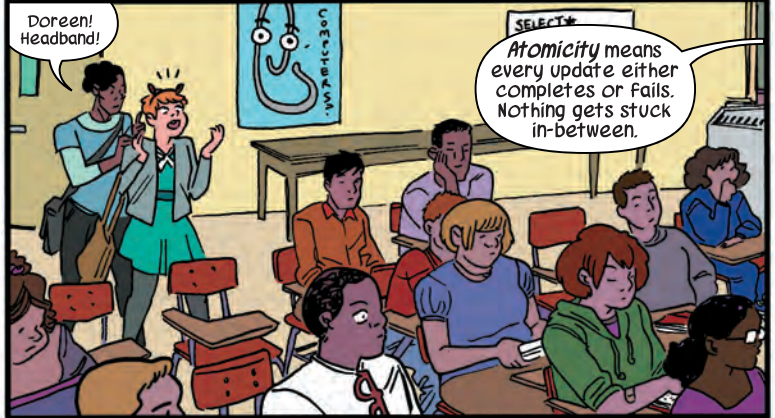
Atomicity.  
Consistency. Isolation.  
Durability.

# INTRODUCTION TO DATABASES

## ACID



Any database boasting these properties is one that guarantees reliable updates.



Doreen! Headband!

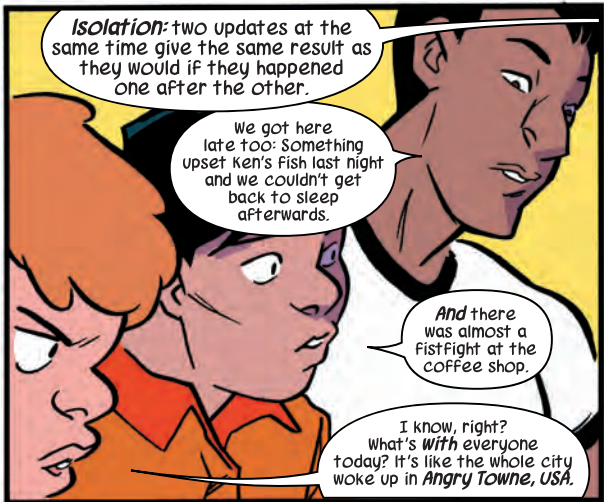
Atomicity means every update either completes or fails. Nothing gets stuck in-between.



Consistency means no update can leave the database in an invalid or inconsistent state.

Where were you guys?

Dude, we broke up like 15 fights on the way here!

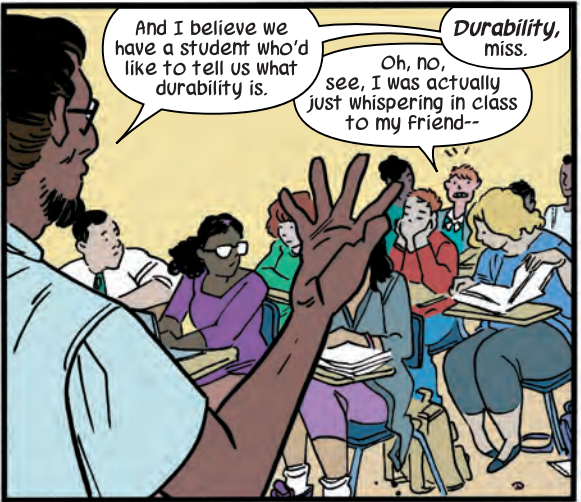


**Isolation:** two updates at the same time give the same result as they would if they happened one after the other.

We got here late too: Something upset Ken's Fish last night and we couldn't get back to sleep afterwards.

And there was almost a fistfight at the coffee shop.

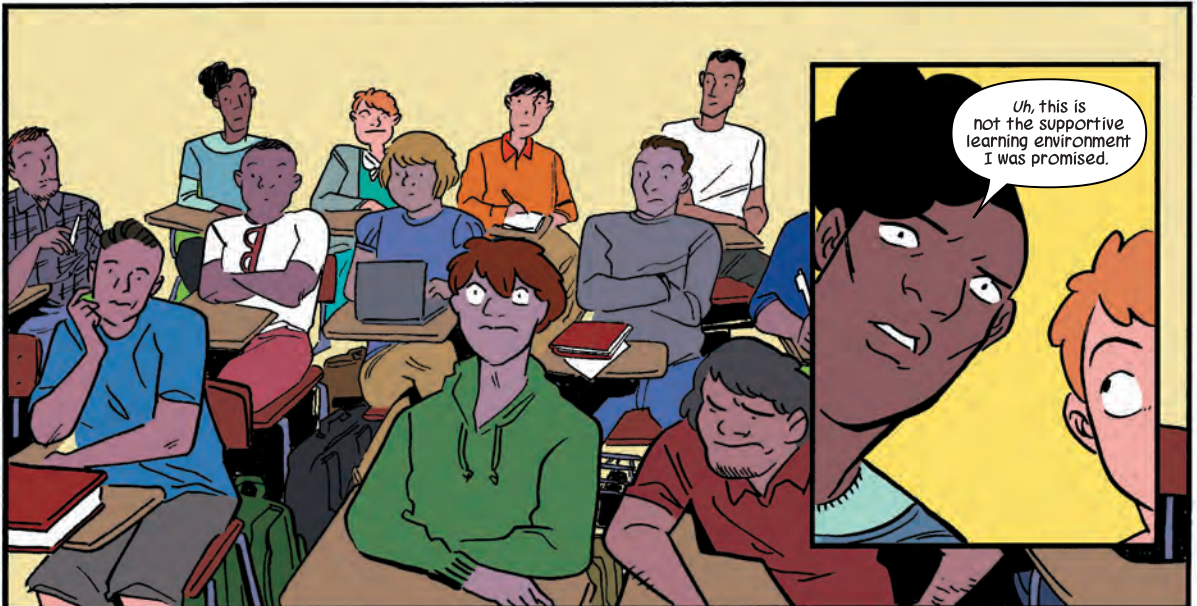
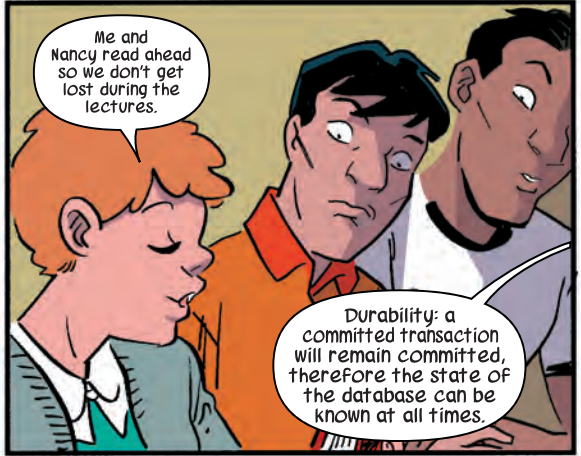
I know, right? What's *with* everyone today? It's like the whole city woke up in *Angry Towne, USA*.



And I believe we have a student who'd like to tell us what durability is.

Durability, miss.

Oh, no, see, I was actually just whispering in class to my friend--



Seriously, you know so much about databases now! You can now officially go to a party where you don't know anyone and pass yourself off as a database engineer. In fact, surprise, this is now mandatory.



Oh, like you're one to talk!

Sit down.

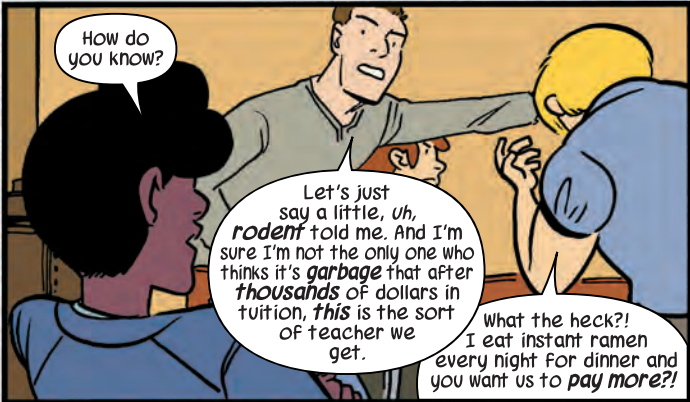
Right, because you're so high and mighty with your computational models that are *literally* from bell-bottom times, when you're the one selling grades for money!



He's selling grades?!

Yeah, man! You want a B+? 50 percent off, this semester only!!

EVERYONE, SIT DOWN.



How do you know?

Let's just say a little, uh, *rodent* told me. And I'm sure I'm not the only one who thinks it's *garbage* that after *thousands* of dollars in tuition, *this* is the sort of teacher we get.

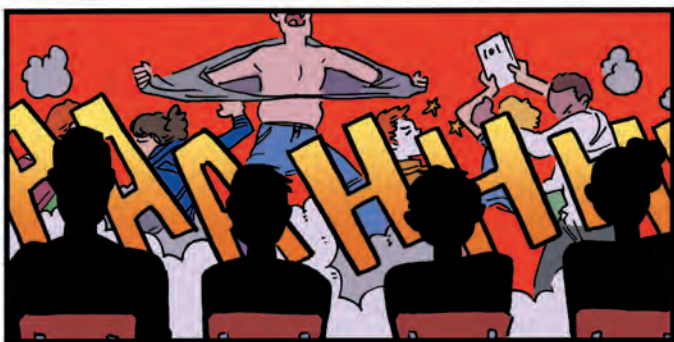
What the heck?! I eat instant ramen every night for dinner and you want us to *pay more*?!



And I like instant ramen, *obviously*, it's great, but it'd be nice to have some *options*!

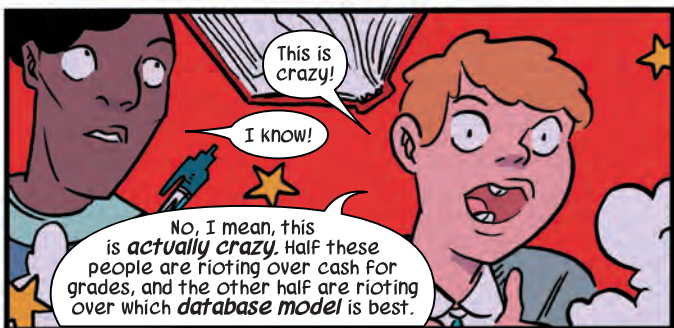
Everyone shut up! I'm trying to learn computers here!!

You shut up! Databases are for stupid babies!



That is crazy. *Obviously*, ACID databases and their more relaxed alternatives both have clear domain-specific uses.

Okay, you need to stop reading ahead without me.



This is crazy!

I know!

No, I mean, this is *actually* crazy. Half these people are rioting over cash for grades, and the other half are rioting over which *database model* is best.

