

PARK



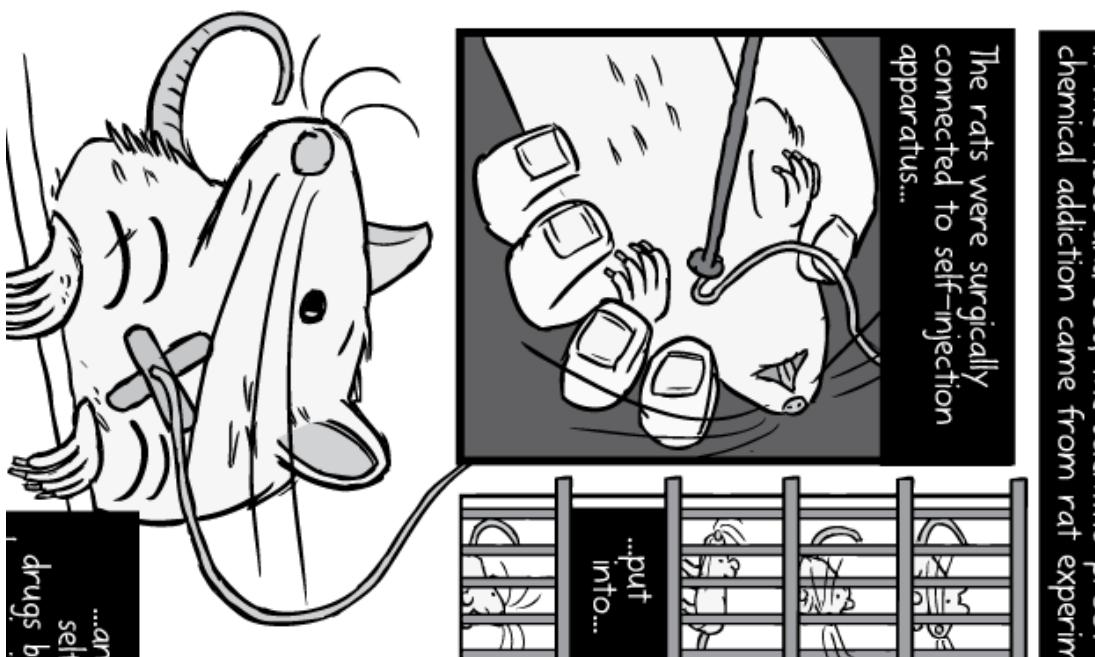
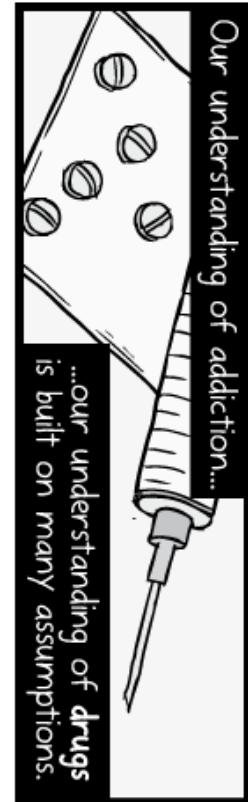
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out the Rat Park drug addiction experiments, see:
ark: extra information about the real-life experiments
diction: the post-Rat Park research of Bruce
sons learnt from researching War on Drugs & Rat Park
y personal experiences with responsible drug use

PDF

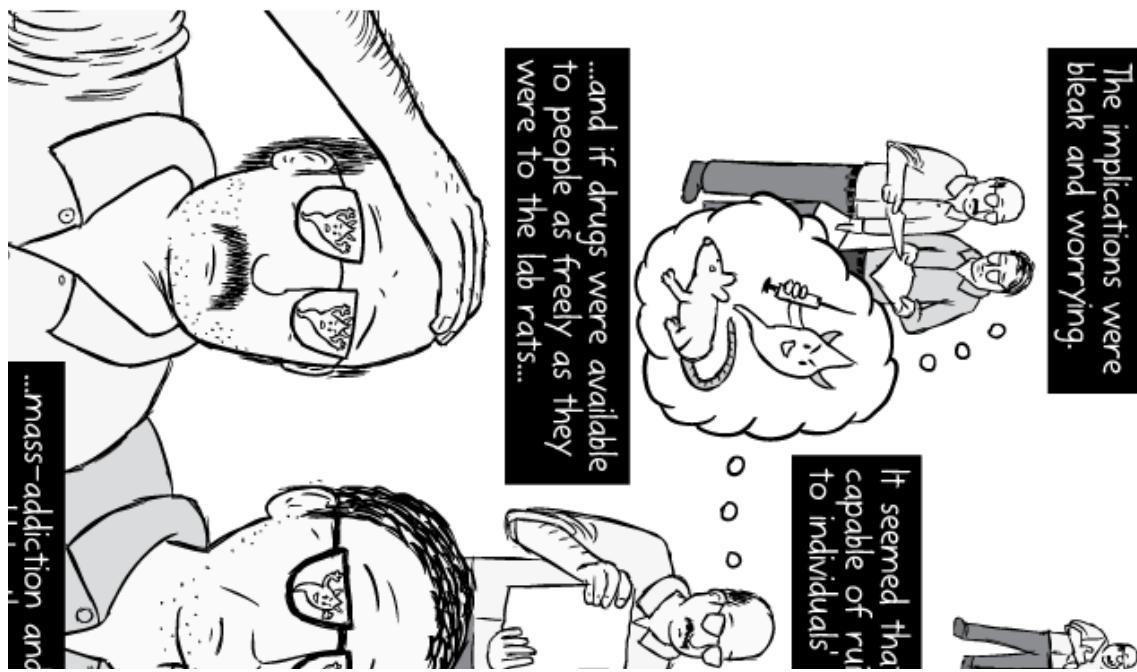




Dominated by their habits, some of the rats would choose drug injections in preference to food and water.



The researchers watched on as the caged rats self-injected powerful psychoactive drugs.

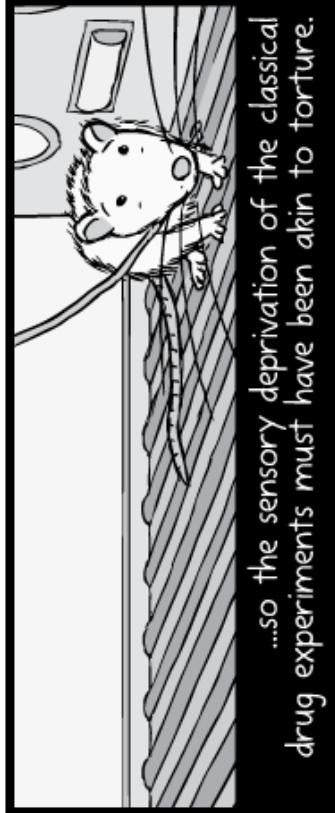
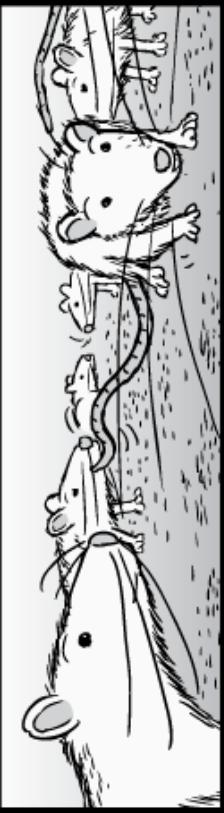


...and if drugs were available to people as freely as they were to the lab rats...

The implications were bleak and worrying.

It seemed that capable of ruin to individuals

Descended from wild Norway Rats, albino lab rats remain curious, gregarious social creatures...



...so the sensory deprivation of the classical drug experiments must have been akin to torture.



Alexander wondered if he too would retreat into a drugged haze, if locked in a box and given no other option.

Professor Bruce Alexander thought differently.



He wondered how much insight could be gathered by studying **rats in solitary confinement**.

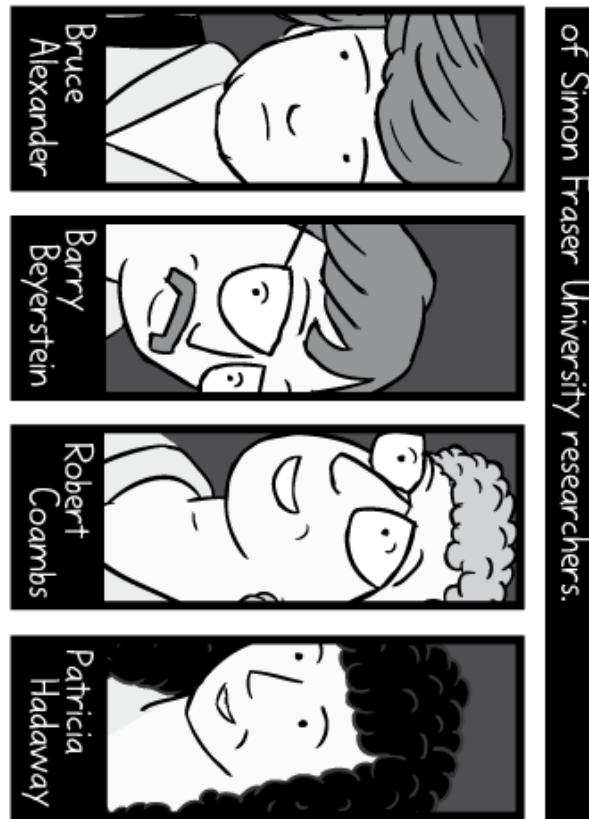


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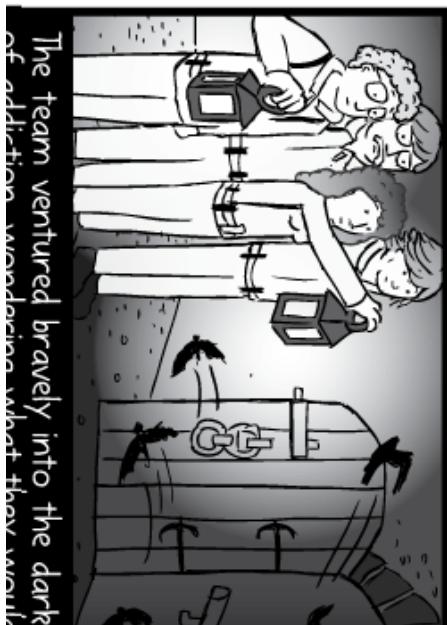




The team decided to repeat the classical rat-drug studies...



In 1977, Prof. Alexander assembled a team of Simon Fraser University researchers.



The team ventured bravely into the dark of addiction wondering what they would

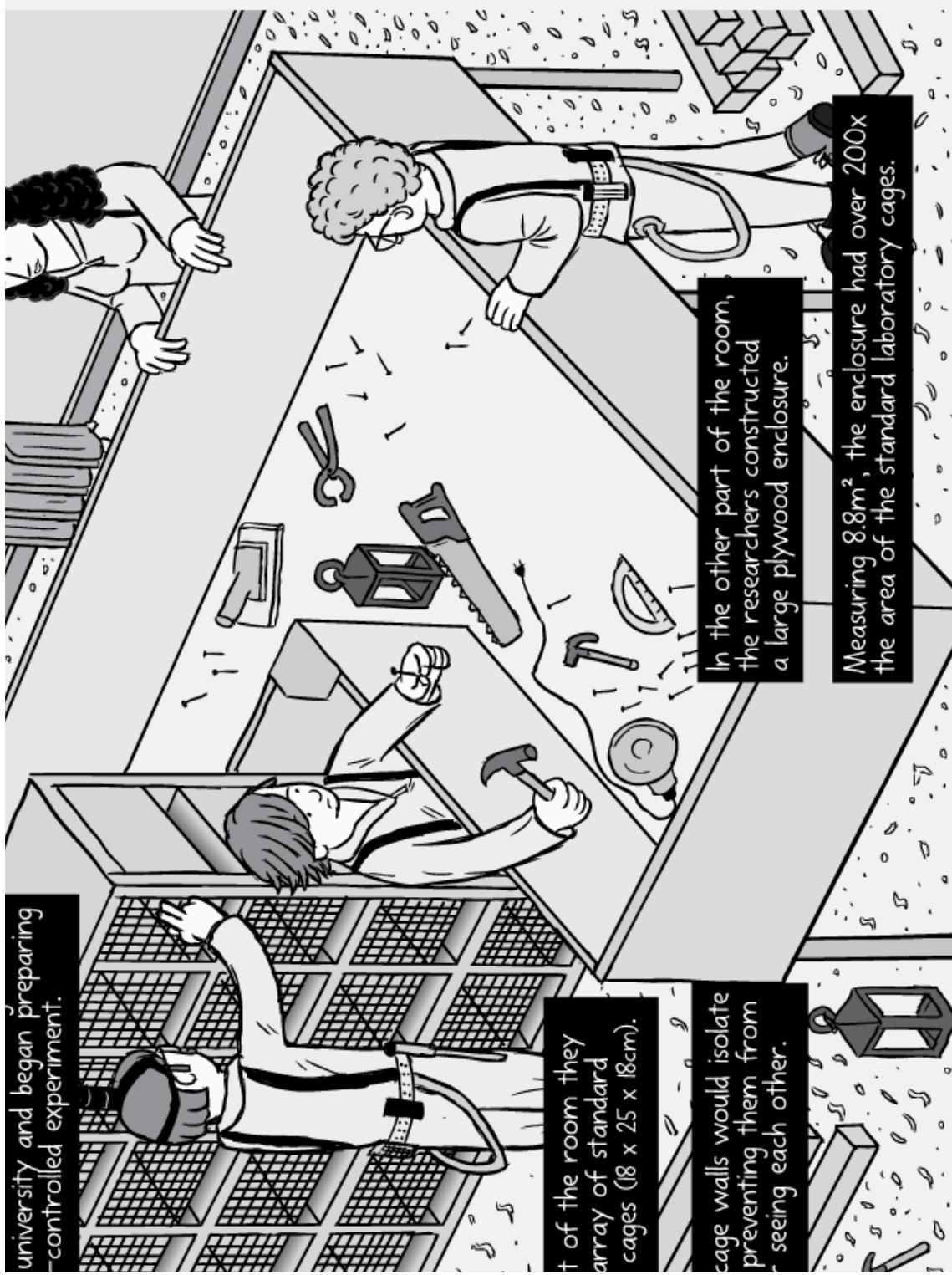


Their experiment would test the power of drug addiction using morphine...



...a close co-notoriously life-destroy

university and began preparing
-controlled experiment.

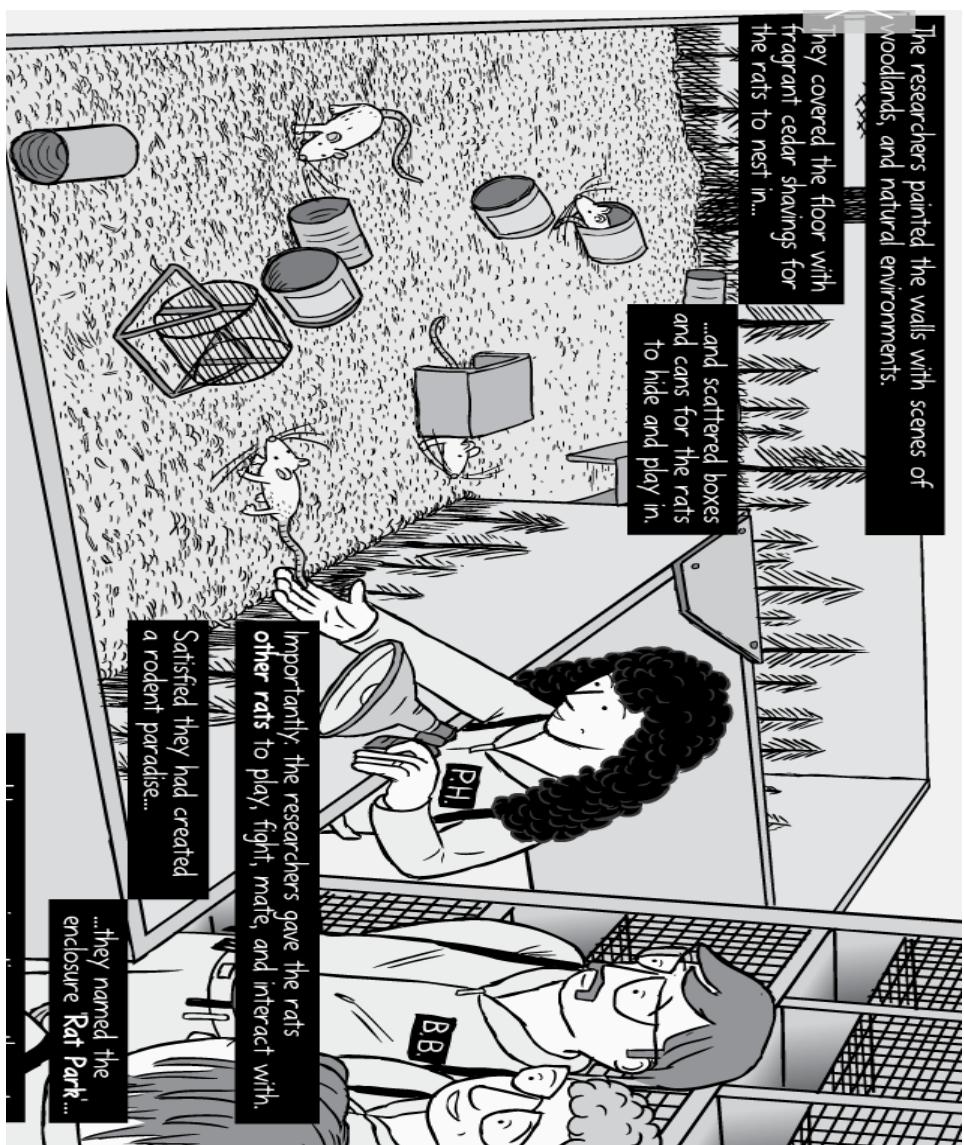


+ of the room they
array of standard
cages ($18 \times 25 \times 18\text{cm}$).

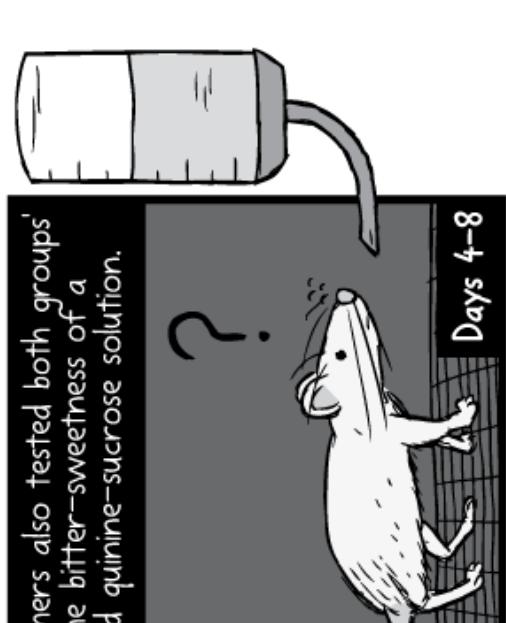
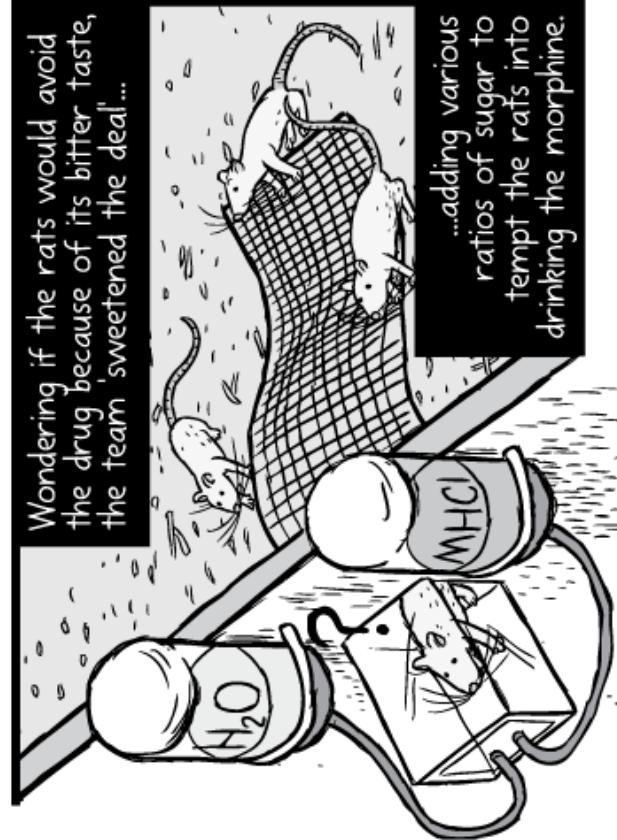
cage walls would isolate
preventing them from
seeing each other.

In the other part of the room,
the researchers constructed
a large plywood enclosure.

Measuring 8.8m^2 , the enclosure had over 200x
the area of the standard laboratory cages.



The researchers began trying to seduce the rats into drinking morphine.
("A drug similar to heroin.)

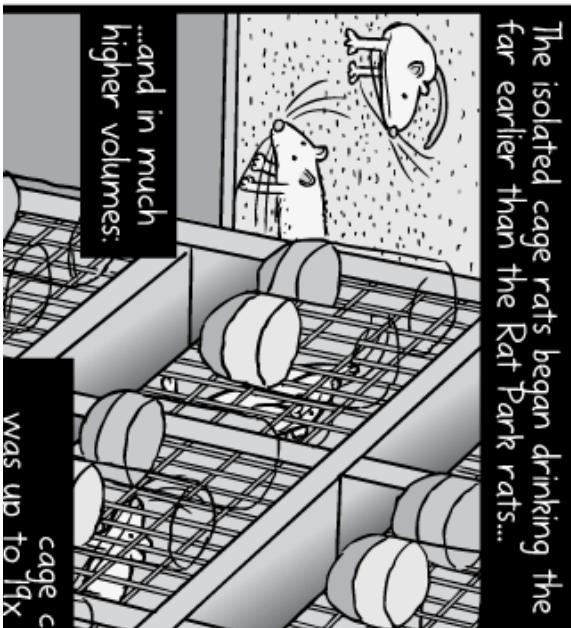
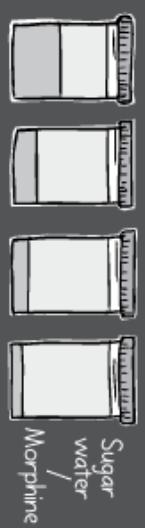




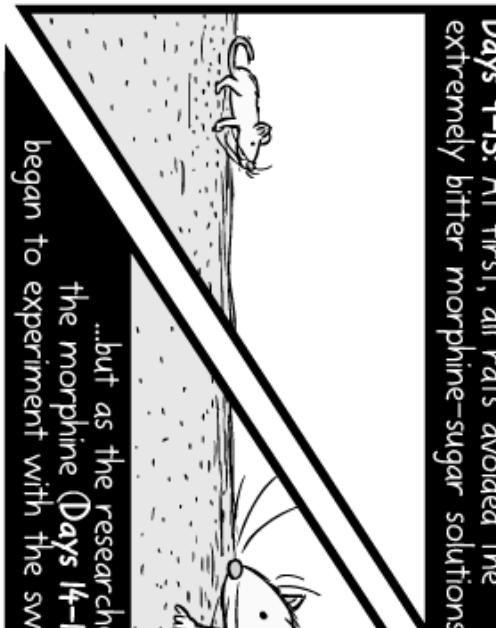
Alexander and team keenly observed how much the rats would tolerate this bad taste in order to experience the effects of the morphine drug.

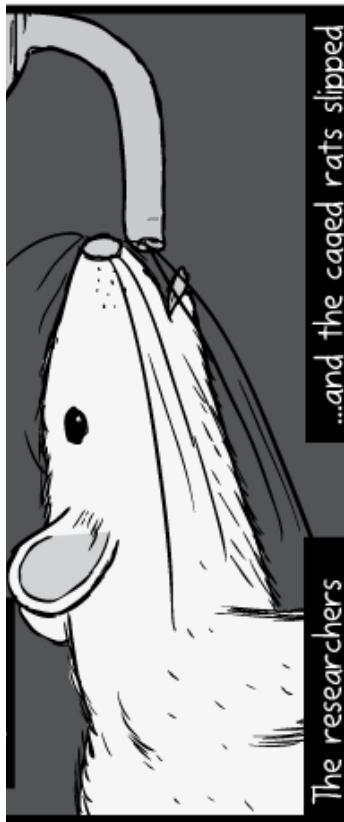
The researchers stepped down the mixtures every 5 days.

Gradually transforming the bitter narcotic fluid into a sweeter, but nonetheless drugged brew.

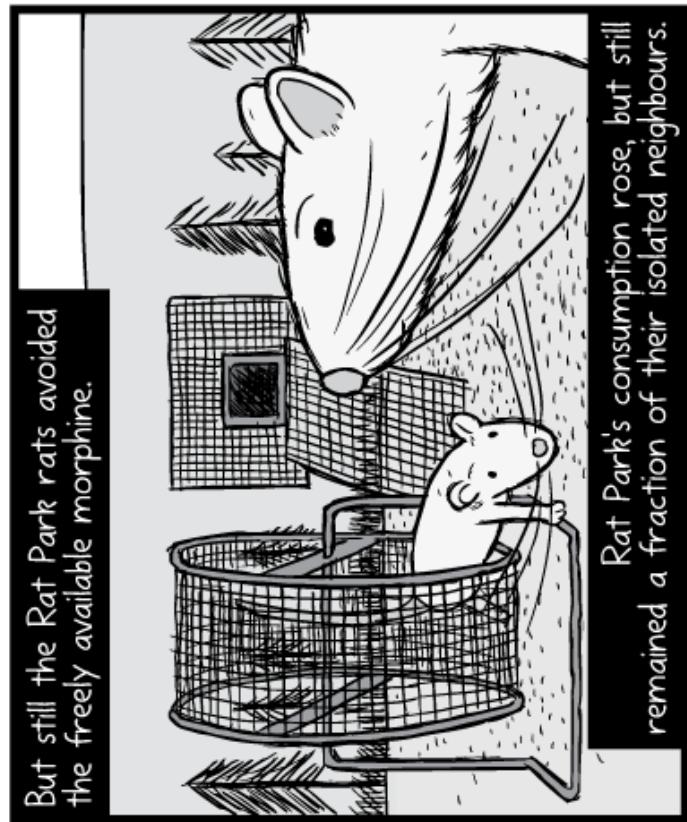


The isolated cage rats began drinking the far earlier than the Rat Park rats...



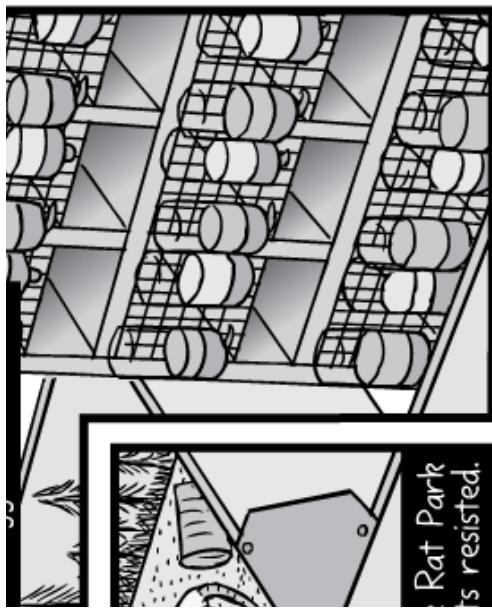


The researchers upped the sugar...
...and the caged rats slipped further into their narcosis.

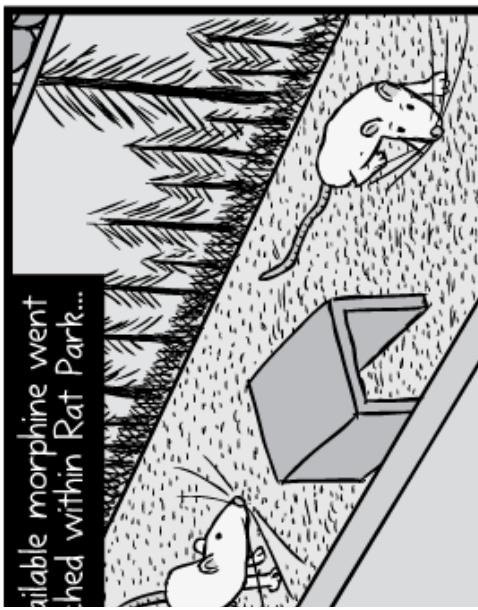


But still the Rat Park rats avoided the freely available morphine.

Rat Park's consumption rose, but still remained a fraction of their isolated neighbours.

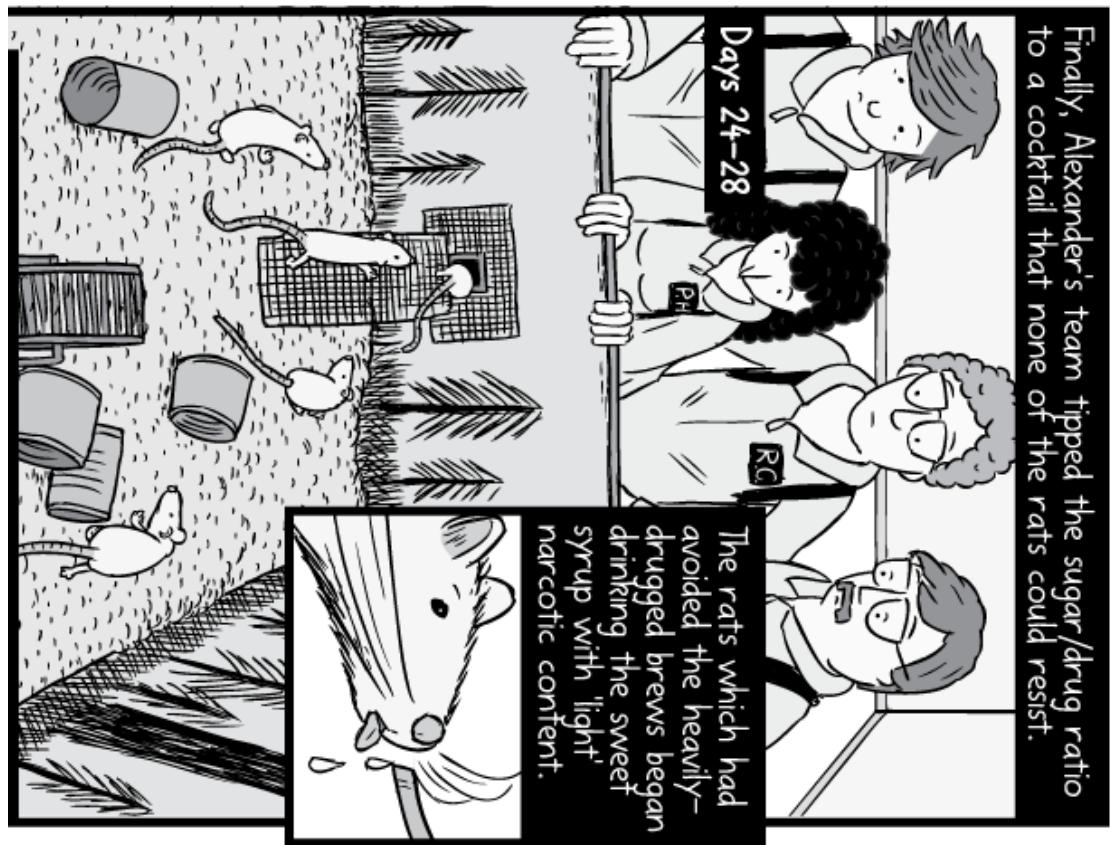


Rat Park resisted.



available morphine went hed within Rat Park...

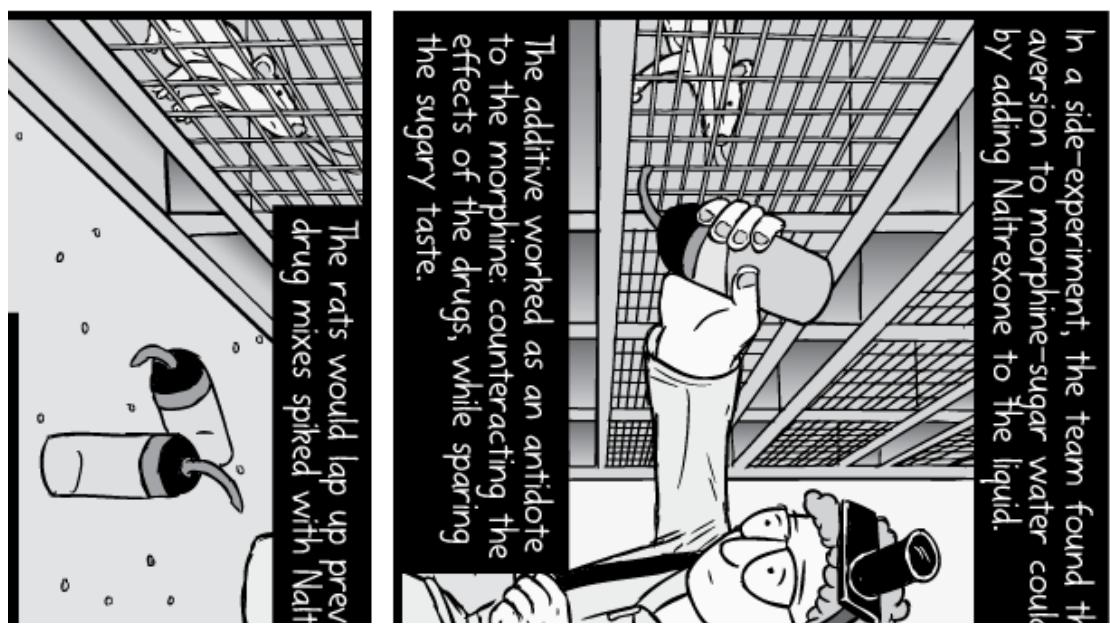
...with the rats seemingly preferring a uninterrupted by the morphine's effects.



Finally, Alexander's team tipped the sugar/drug ratio to a cocktail that none of the rats could resist.

Days 24-28

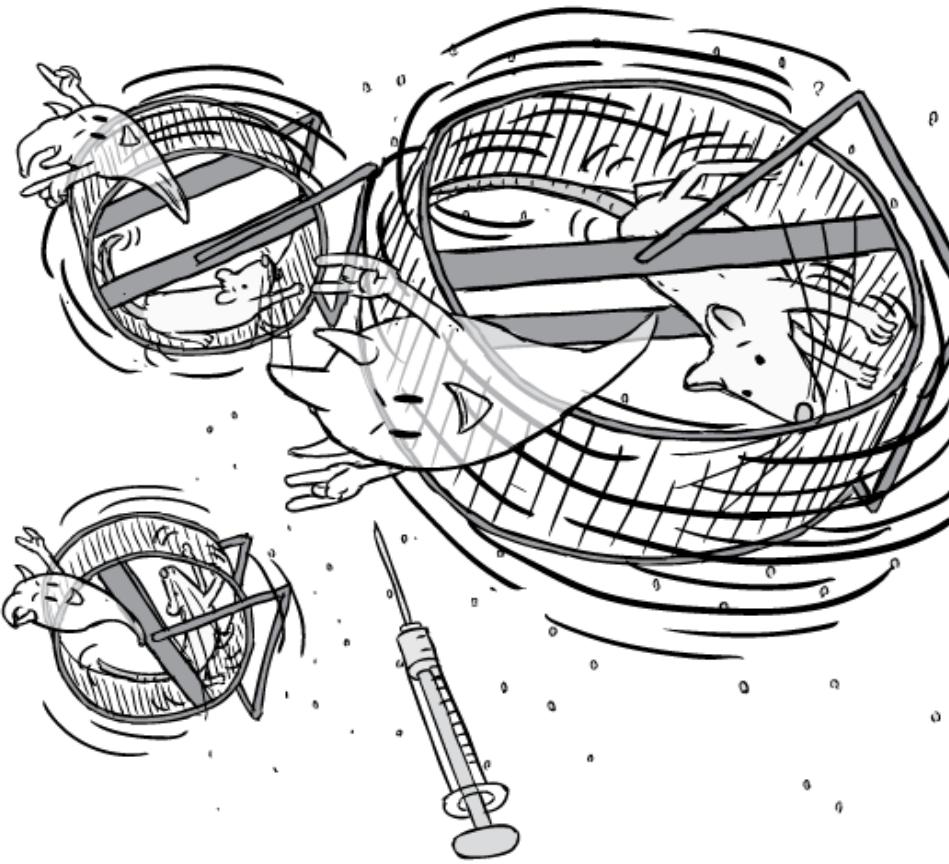
The rats which had avoided the heavily-drugged brews began drinking the sweet syrup with 'light' narcotic content.



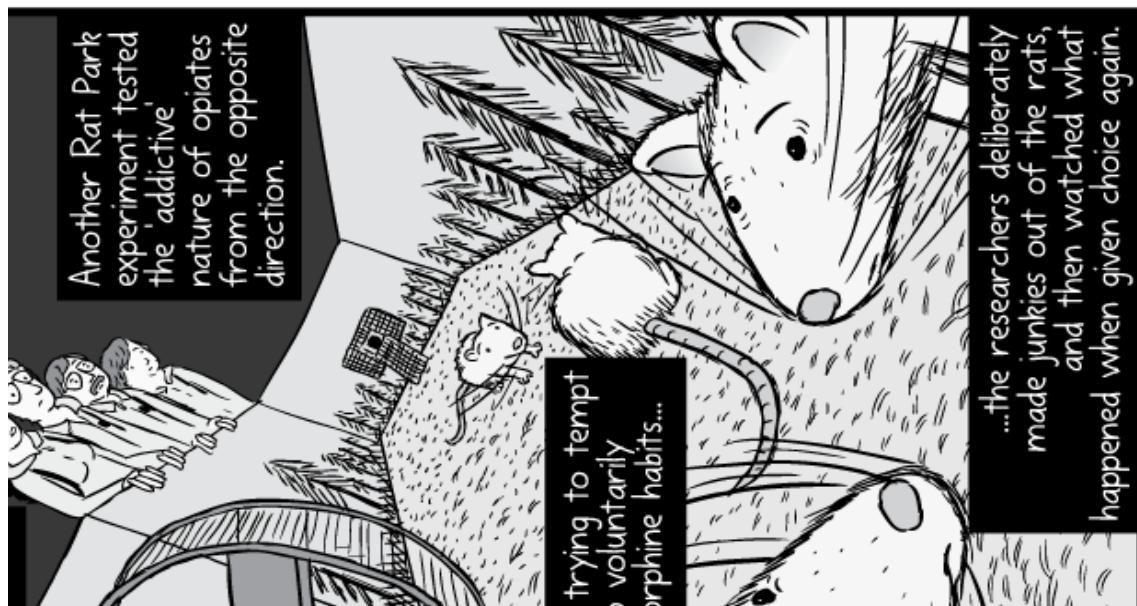
In a side-experiment, the team found the aversion to morphine-sugar water could be added Naltrexone to the liquid.

The additive worked as an antidote to the morphine: counteracting the effects of the drugs, while sparing the sugary taste.

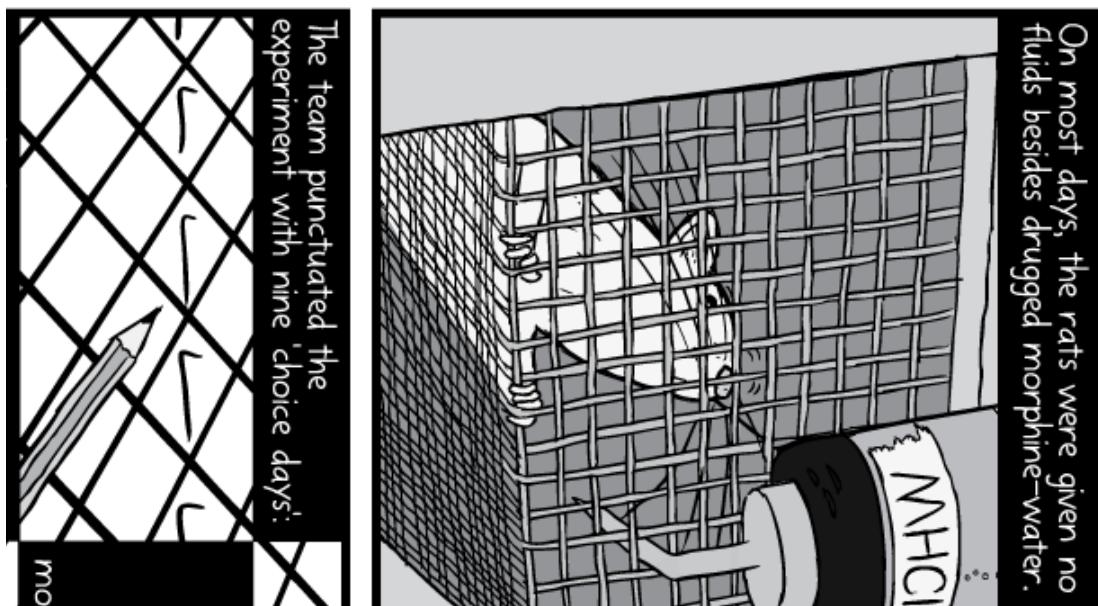
The rats drug mixes spiked with Nalt

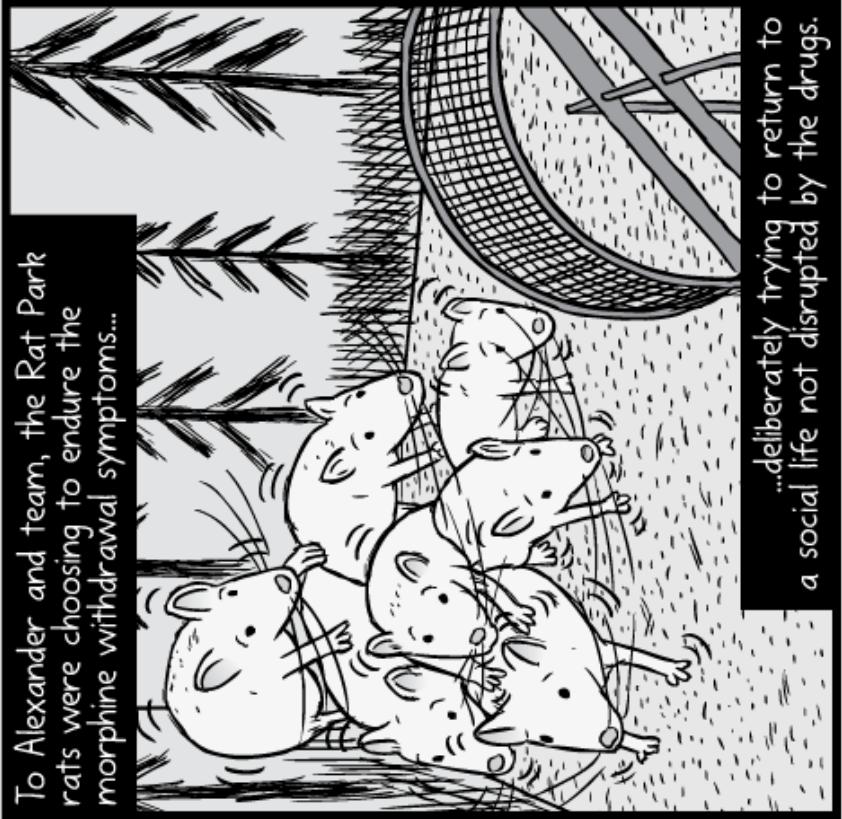


...a notion which suggests that the physiological effect of quitting opiate use is so unbearable that users cannot stop their drug habits.



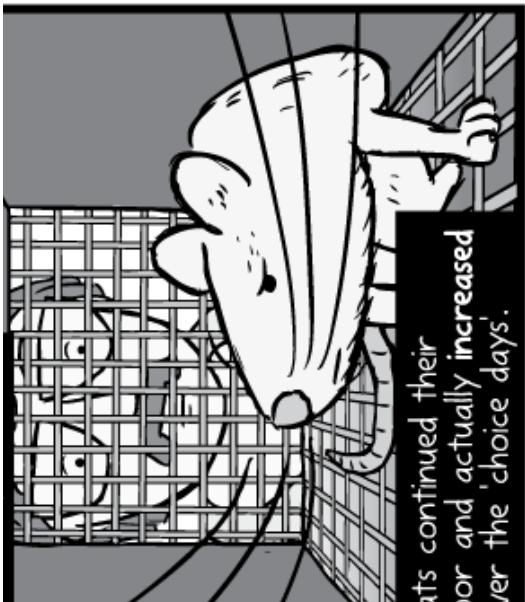
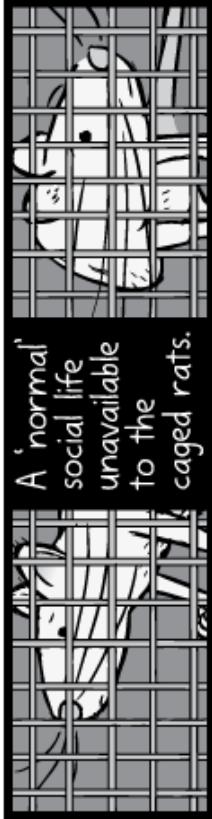
...the researchers deliberately made junkies out of the rats, and then watched what happened when given choice again.





To Alexander and team, the Rat Park rats were choosing to endure the morphine withdrawal symptoms...

...deliberately trying to return to a social life not disrupted by the drugs.



rats continued their drug and actually increased over the 'choice days'.

The story across the room, in Rat Park was different.

ally dependent on morphine, the Rat Park rats increased their drug use on 'choice days'.



symptoms were noted in the twitchy rats. Rat Park rats avoided the morphine.

...trying to corner and confront the evidence at



Together the team swept their searchbeams across dark corners at the foundations of drug addiction theory...



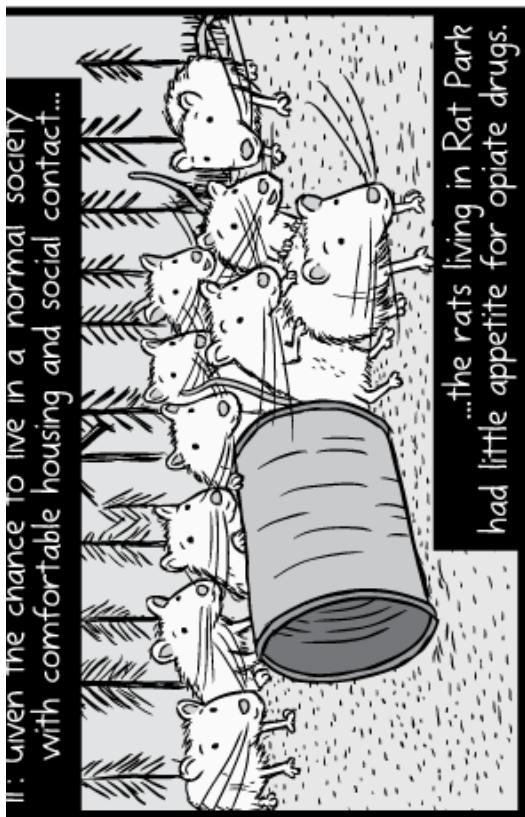
Bruce Alexander and his colleagues ran multiple experiments within Rat Park.



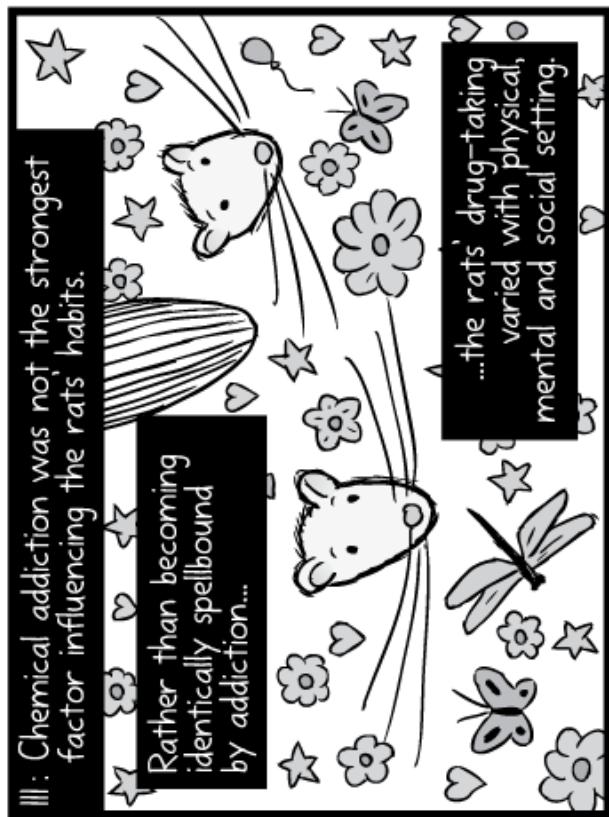
Trapped in the scrutinising glare of the researchers' spotlights...

The Rat Park studies were part of a turning tide of evidence away from boogeyman tales of demonic drugs...

...the basic fe
drug prohibition
looked a lot



"...Given the chance to live in a normal society with comfortable housing and social contact...



...the rats living in Rat Park had little appetite for opiate drugs.

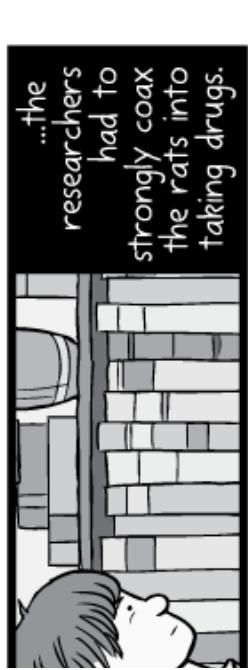
III: Chemical addiction was not the strongest factor influencing the rats' habits.

Rather than becoming identically spellbound by addiction...

...the rats' drug-taking varied with physical, mental and social setting.



I: Despite the addictive 'demon drug' reputation of heroin...



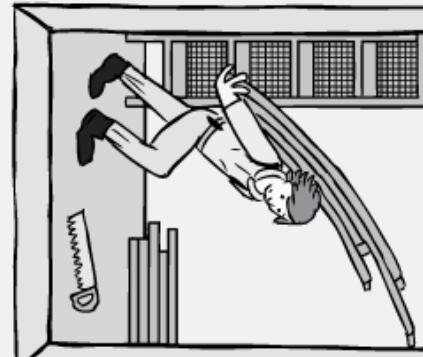
...the researchers had to strongly coax the rats into taking drugs.



...sugar, forced-habituation and isolation were essential to make the rats want to drink the morphine.

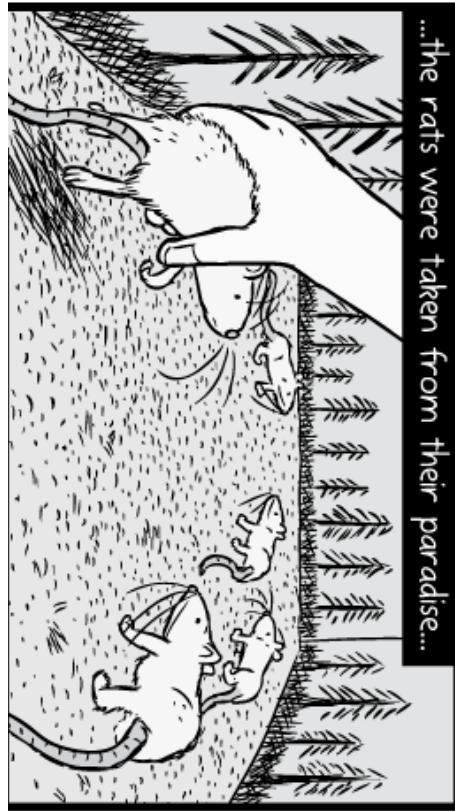
...sugar, forced-habituation and isolation were essential to make the rats want to drink the morphine.

The university cancelled the research funding in 1982...

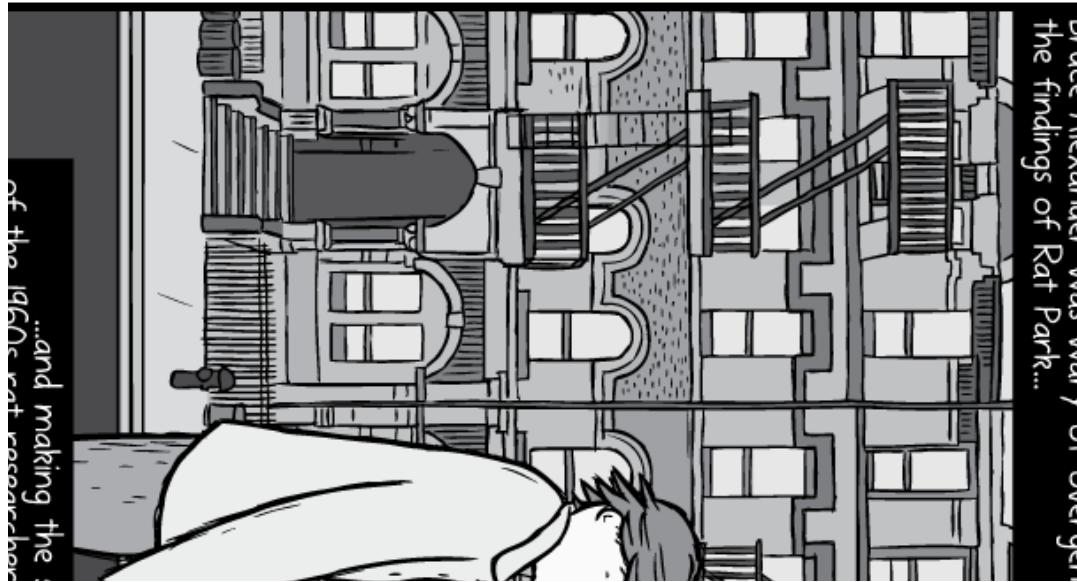


...the plywood was sawn up into pieces...

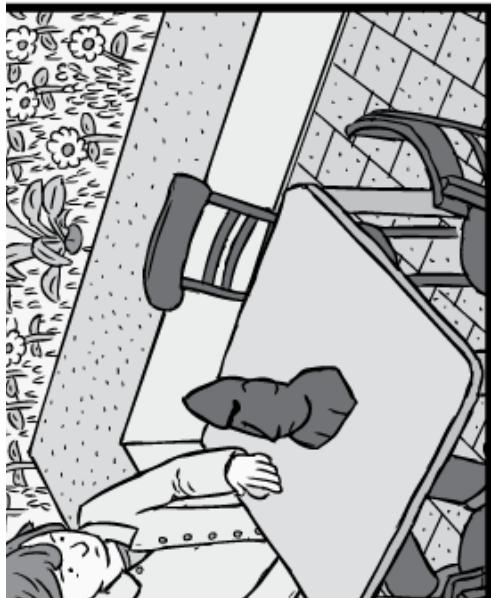
...the rats were taken from their paradise...



Bruce Alexander was wary of overgeneralizing the findings of Rat Park...



...and making the
findings of Rat Park...





Bruce Alexander's work moved beyond the world of rats...

