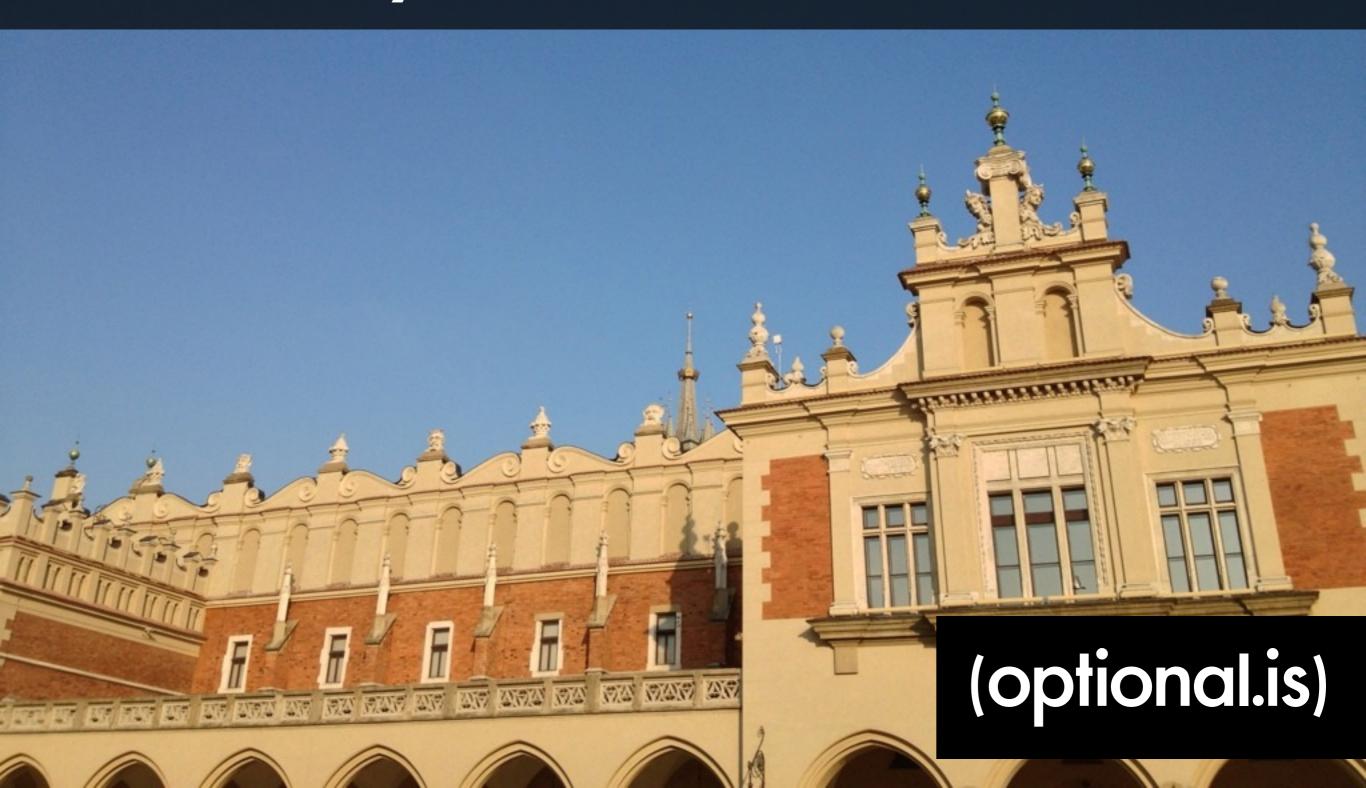
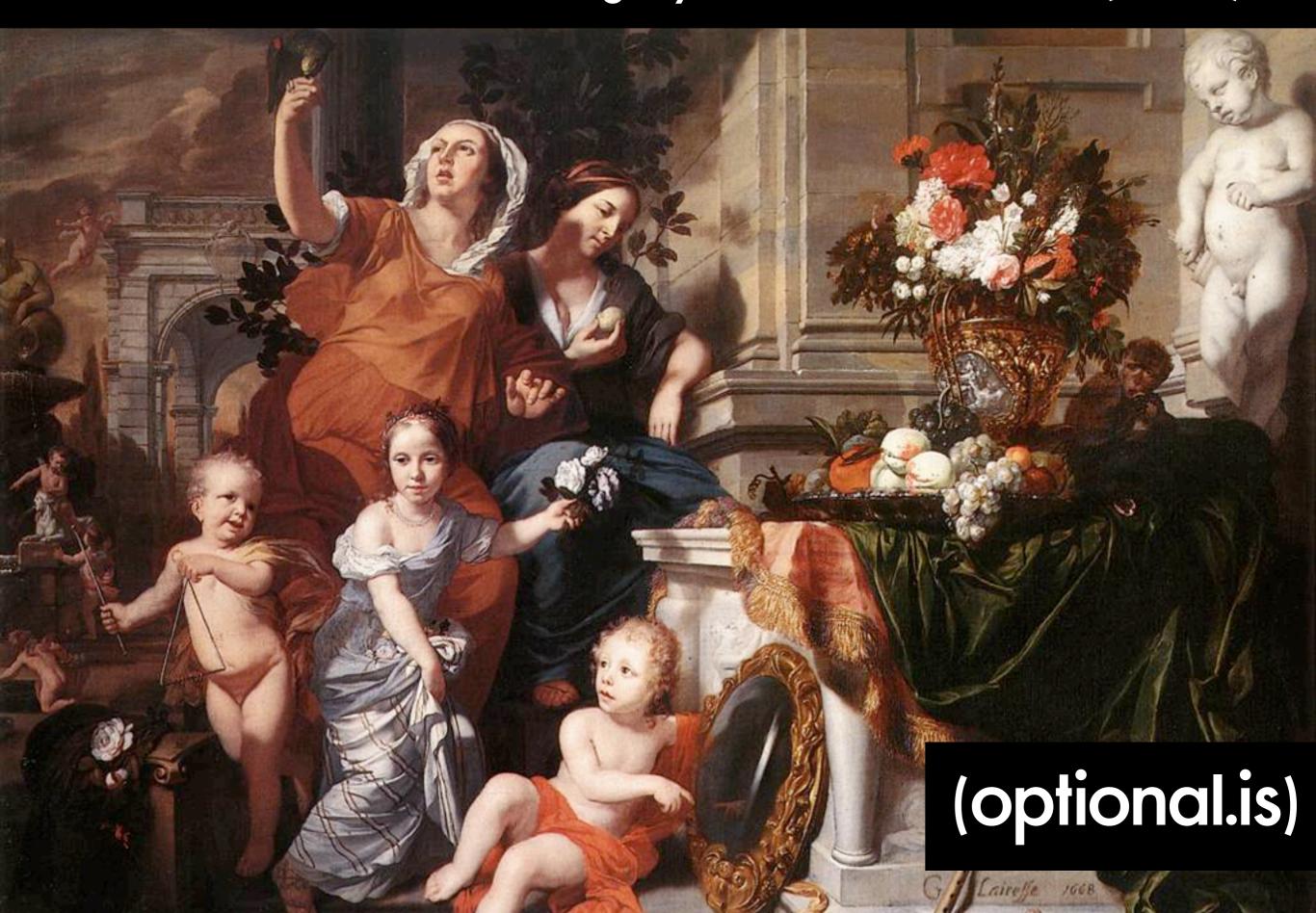
Sensors and Sensibility

Brian Suda brian@suda.co.uk Krakow, Poland



Gérard de Lairesse's Allegory of the Five Senses (1668)



Human Senses

Sight
Hearing
Taste
Smell
Touch

Balance and acceleration
Temperature
Kinesthetic sense
Pain
Time
Other internal senses

(eillonoitqo)



Echolocation Electroreception Magnetoception

Pressure detection

Current detection (Fish)

Slit sensillae of spiders

Polarized light direction/detection

Haidinger's brush



How <u>human</u> are phones?

Phones have more sensors than you expect!



GPS

Location

Distance

Direction

Camera

Light Sensor

Tilt

Wifi

Cellular

Did I get wet?

BlueTooth

Infrared

Microphone

Touch screen

Clock

Speaker

What's on the Horizon?

NFC
Radiation
Temperature
Humidity
Barometer

Pressure
OCR
Projectors
Flexable displays



Cancer/seizure Diabetes Blood/Disease Pee test Health Lidar/Ecolocation DNA? (What are you eating?)

Human senses

Phone Sensors

Sight Camera Sound Microphone/Speakers **Smell** Smell Touch Touch Taste Taste Accelerometer Balance Clock Time

Other senses

Phone Sensors

Echolocation

Lidar/Radar

Magnetic

Compass

Kinesthetics

NFC

Electroreception

Electroreception

Pressure detection

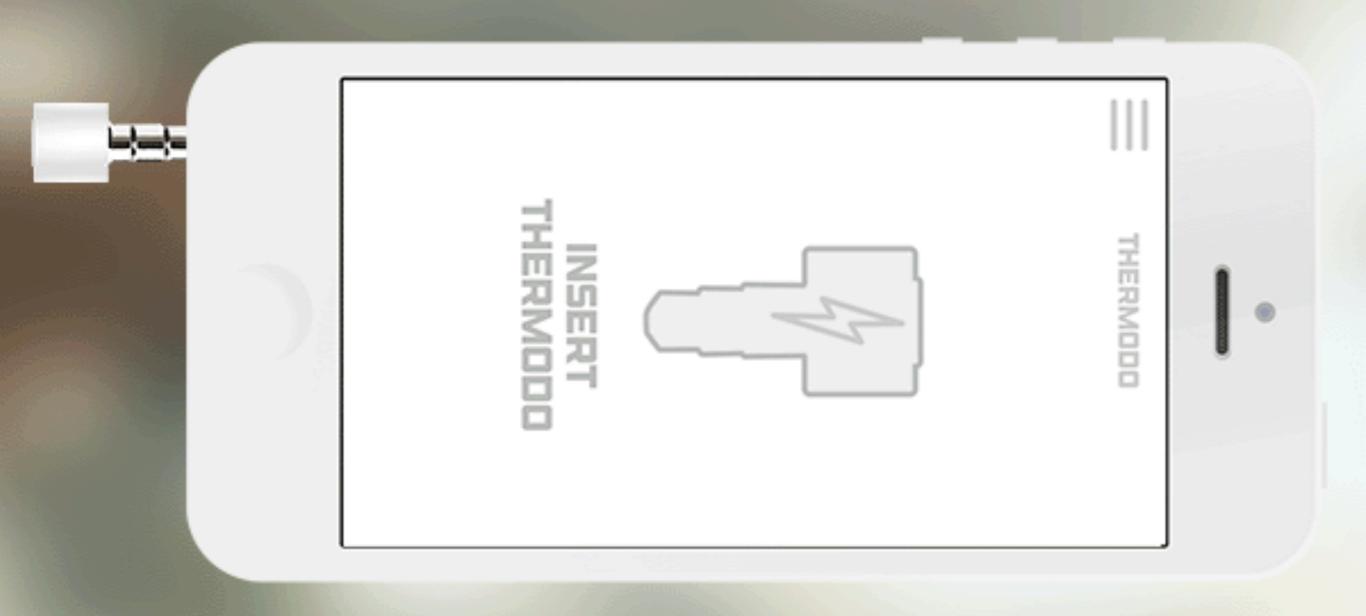
Flexible Displays

Temperature

Thermometer

Location

GPS/Wifi/Cellular

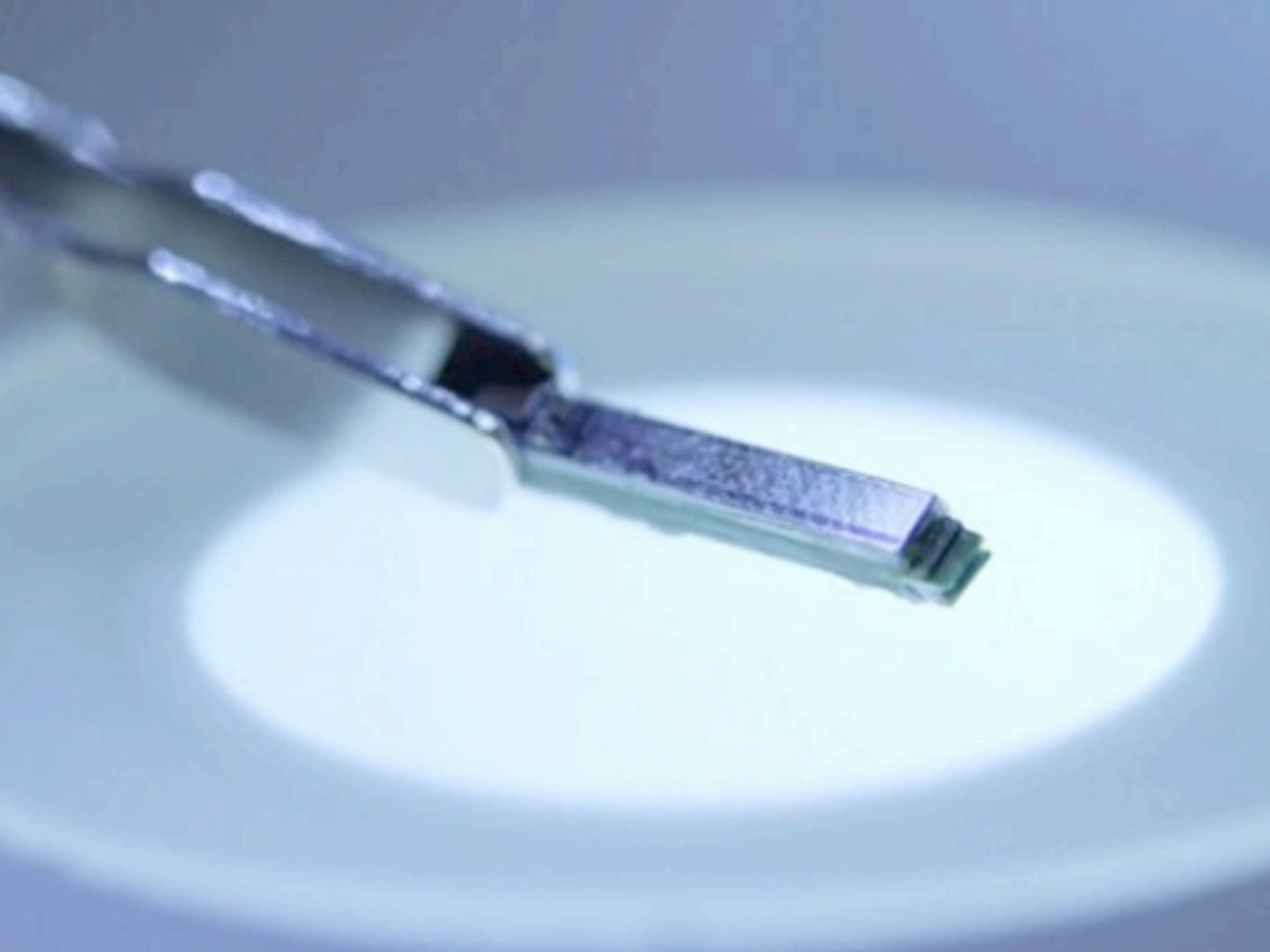


http://www.kickstarter.com/projects/robocat/thermodothe-tiny-thermometer-for-mobile-devices

cubesensors.com

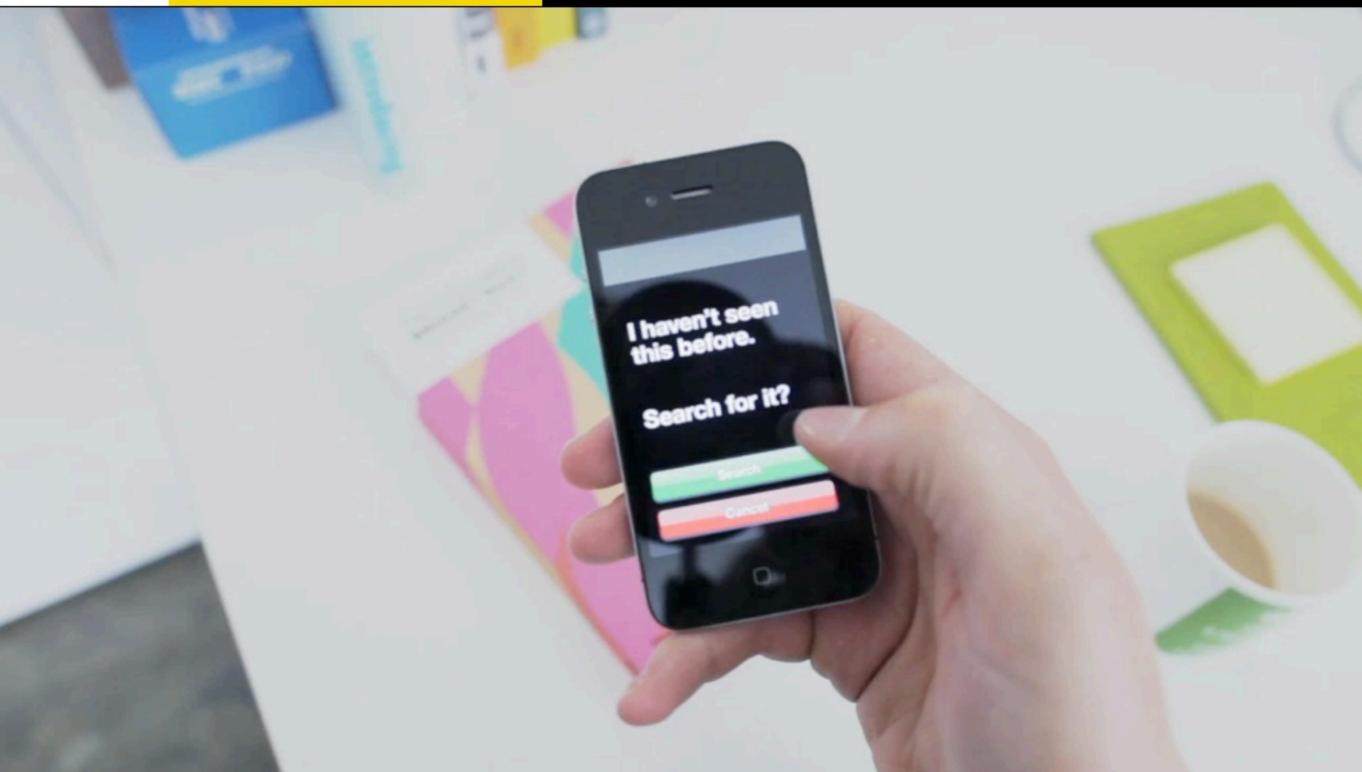


mylapka.com Lapka Humidity 52 %rH





"Text Camera"



vimeo.com/55523105

Text camera

A 'smart as a puppy' camera that looks at the world and says what it sees.

Video sketch 11 July 2011

Google[.]





- Which Sensors take priority?
- Japanese Vending machines

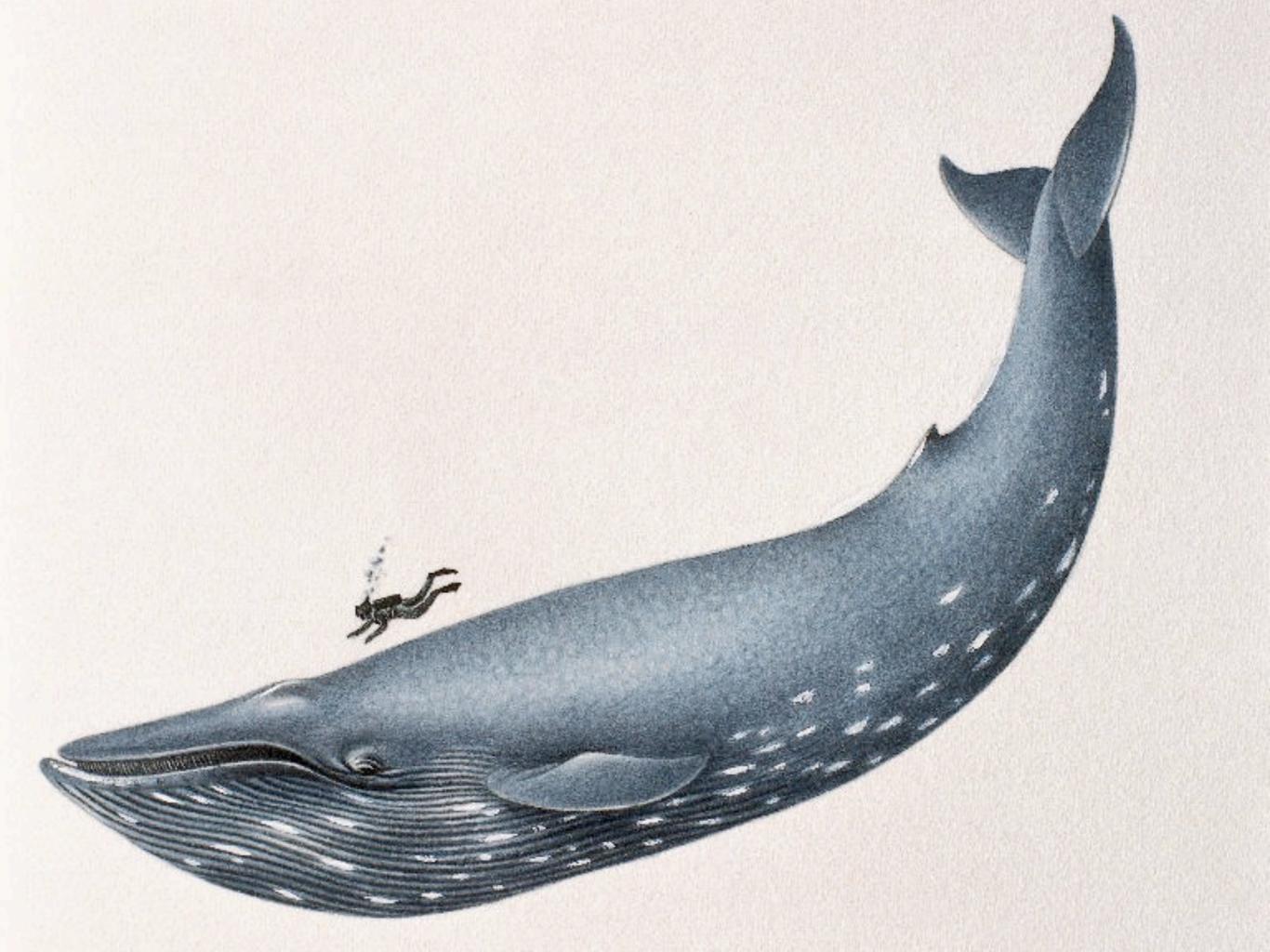


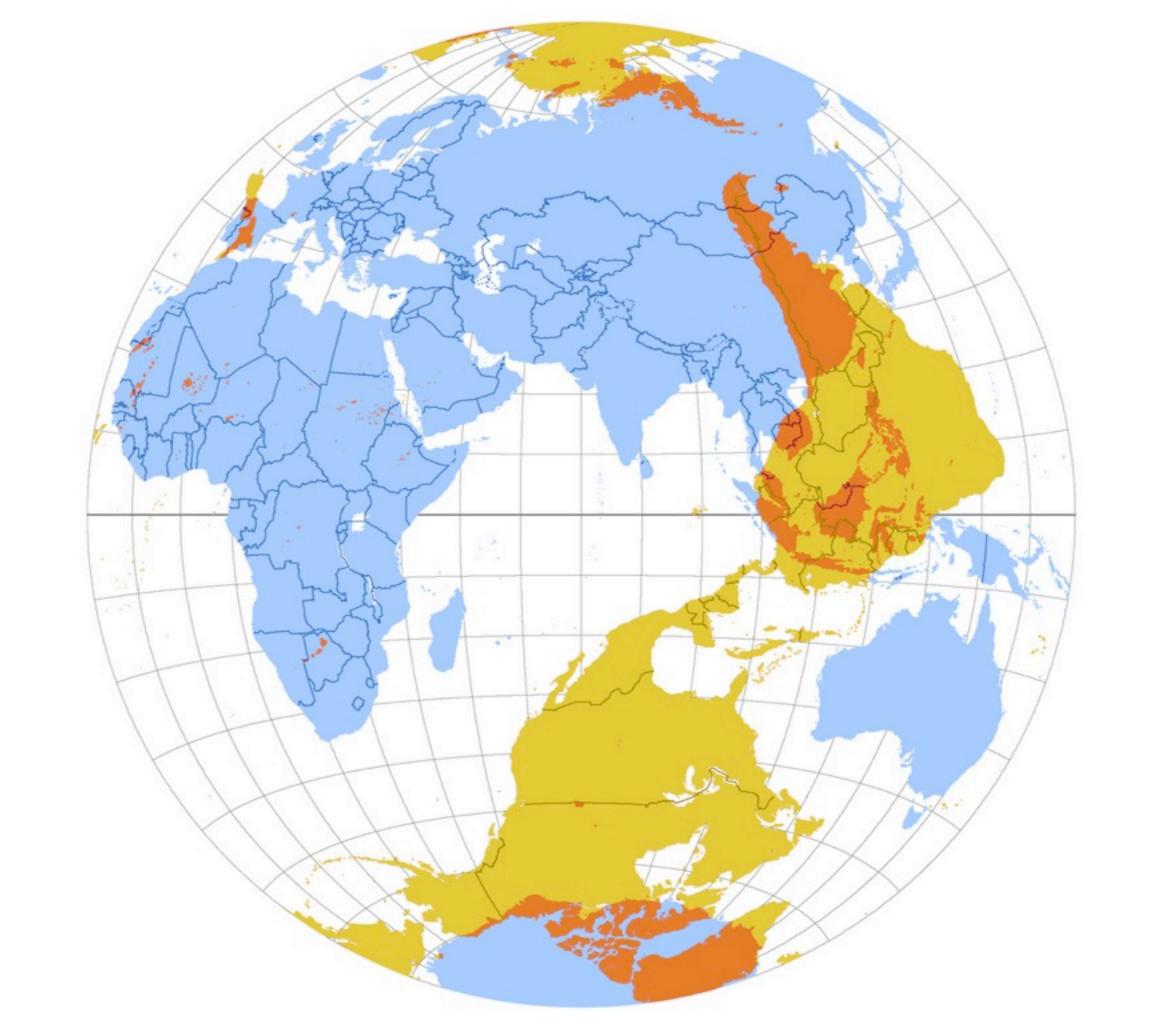




Weather Mesh

Sensor Delay





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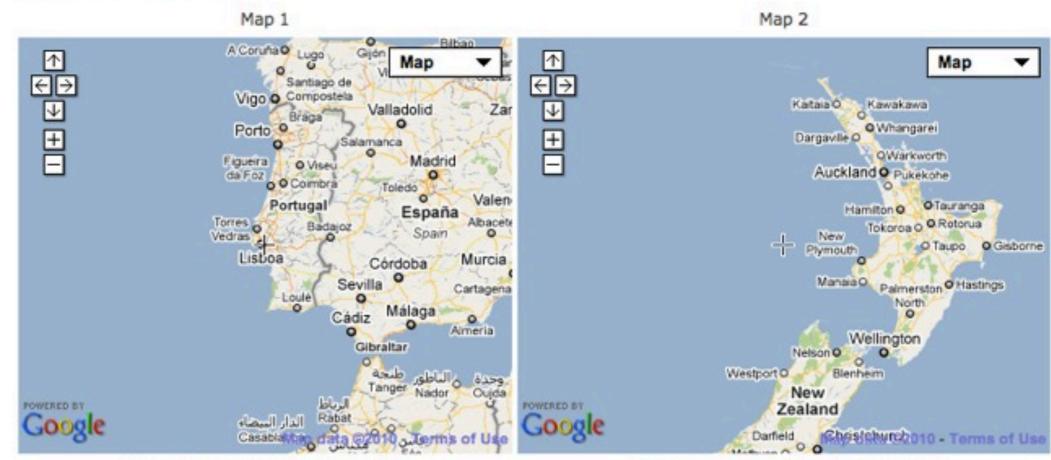
Track & Trace -Gprs/Gps

Track & Trace for

Tunnel to the Other Side of the Earth

Have you every wondered which part of the other side of the earth is directly below you? Find out using this map tunneling tool.

Map Tunneling Tool



38.685509760012,-8.701171875

Nearest Country: Portugal

-38.685509760012,171.298828125

Nearest Country: New Zealand

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Same-sex marriage set to pass into NZ law



Live stream: Marriage equality debate

Watch MPs debate Louisa Wall's marriage equality bill in Parliament.

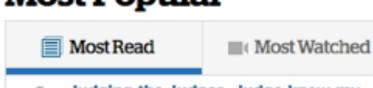
Louisa Wall thanks partner for 'sharing this journey'

Same-sex debate: Two views

Timeline: Gay rights in New

Zealand

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- Judging the Judges: Judge knew my pain - Dad
- Drink-driver astounded police, pleads guilty
- Boston bombs made out of pressure cookers
- Jetstar cancels flights as domestic demand sags
- Repeat sex offender retains life savings

Live blog: Marriage equality bill debate

A bill to legalise same-sex marriage is set to become law tonight after months of emotional debate from both sides of the...



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12 min ago

Louisa Wall thanks partner for 'sharing this journey'

19 min ago

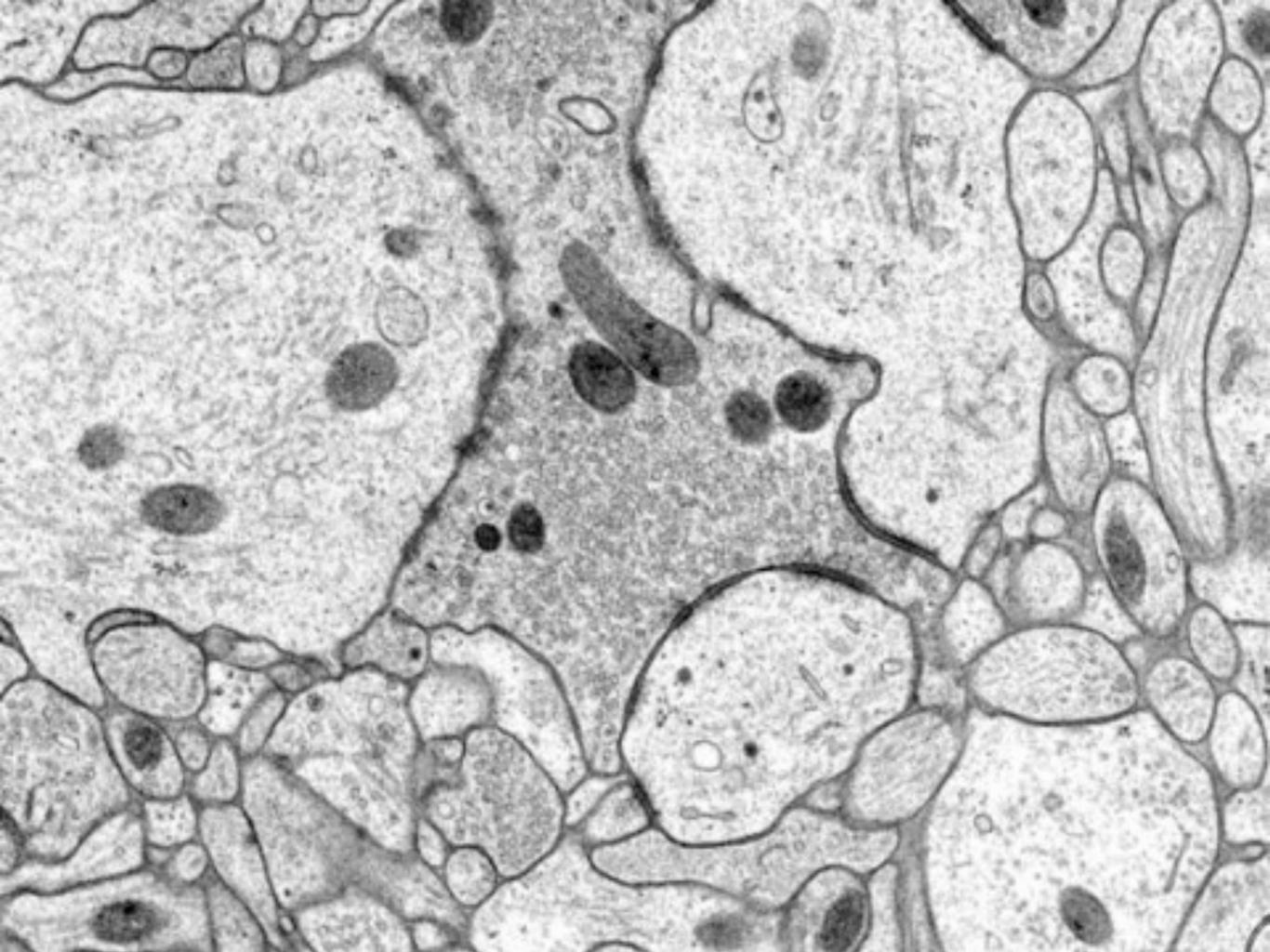
Travel



Croatia: In the footsteps of an emperor I just spent a few days at the Emperor Diocletian's beach house on the Dalmatian Coast and it was amazing. As you'd expect...

Terminal - ping - 80×24

bl3-76-200:~ brian\$ ping www.nzherald.co.nz PING www.nzherald.co.nz (123.100.98.246): 56 data bytes 64 bytes from 123.100.98.246: icmp_seq=0 ttl=240 time=307.632 ms 64 bytes from 123.100.98.246: icmp_seq=1 ttl=240 time=305.192 ms 64 bytes from 123.100.98.246: icmp_seq=2 ttl=240 time=305.478 ms 64 bytes from 123.100.98.246: icmp_seq=3 ttl=240 time=305.592 ms 64 bytes from 123.100.98.246: icmp_seq=4 ttl=240 time=306.004 ms 64 bytes from 123.100.98.246: icmp_seq=5 ttl=240 time=307.487 ms 64 bytes from 123.100.98.246: icmp_seq=6 ttl=240 time=305.613 ms 64 bytes from 123.100.98.246: icmp_seq=7 ttl=240 time=306.270 ms 64 bytes from 123.100.98.246: icmp_seq=8 ttl=240 time=306.991 ms 64 bytes from 123.100.98.246: icmp_seq=9 ttl=240 time=306.392 ms 64 bytes from 123.100.98.246: icmp_seq=10 ttl=240 time=383.289 ms 64 bytes from 123.100.98.246: icmp_seq=11 ttl=240 time=305.304 ms 64 bytes from 123.100.98.246: icmp_seq=12 ttl=240 time=307.051 ms 64 bytes from 123.100.98.246: icmp_seq=13 ttl=240 time=305.575 ms 64 bytes from 123.100.98.246: icmp_seq=14 ttl=240 time=305.979 ms ۸C --- www.nzherald.co.nz ping statistics ---16 packets transmitted, 15 packets received, 6.2% packet loss round-trip min/avg/max/stddev = 305.192/311.323/383.289/19.249 ms bl3-76-200:~ brian\$ 📗





THANKS!

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