



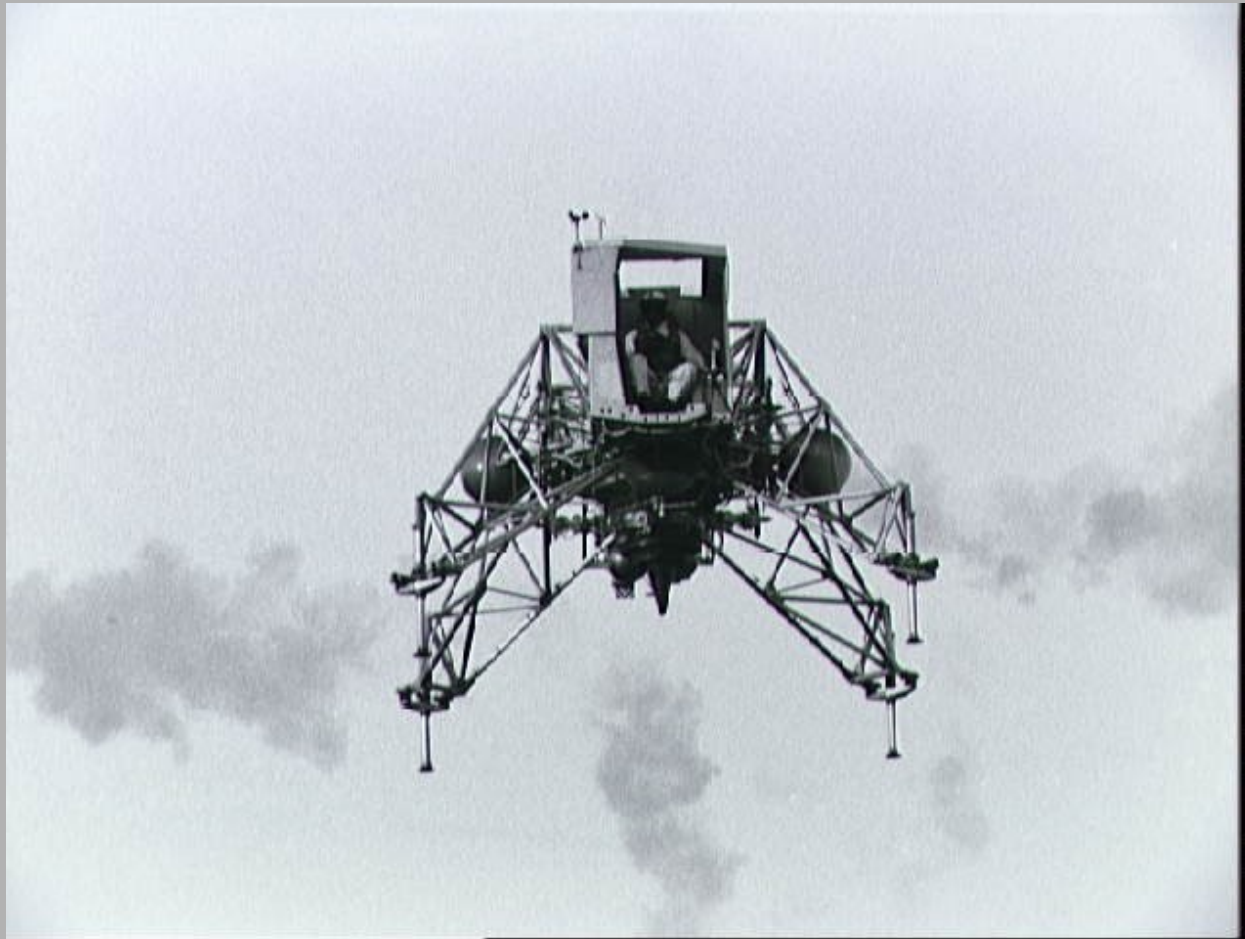
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Taking the High Route

an approach to accommodate
value based routing



Infrastructure sets the invisible
rules that govern the spaces of our
everyday lives

– Keller Easterling



The Tussle

different stakeholders that are part of the Internet milieu have interests that may be adverse

[...]

accommodating this tussle is crucial to the evolution of the network's technical architecture.

- Clarke, Wroclawski, Sollins, Braden (2005)



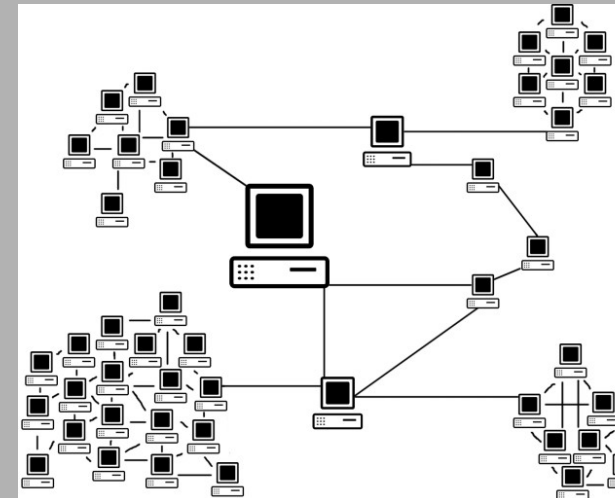
Routing decisions are currently
made based on a mixture of
efficiency, trust, and economics

-Ashwin Mathew



What values to express?

- Relevant
- Applicable
- Existing framework
- Transnational





General Data Protection Regulation

General Data Protection Regulation

- EU law on data protection and privacy
- Unifies data regulation across the EU
- Applicable for inhabitants of the EU and EU citizens
- Addresses export of personal data outside of the EU and EEA

**UNITED NATIONS
GUIDING PRINCIPLES
ON BUSINESS
& HUMAN RIGHTS**

UN Guiding Principles for Business and Human Rights

- Human rights: globally most accepted norm, since 1947
- For companies: responsibility to respect human rights
- Outlines a full framework which addresses policies, assessment, mitigations, and redress



Proposal: introduction of two objects to RIPE database

as-set: AS-GDPR

remarks: members of this set declare to be compliant with the General Data Protection Regulation of the European Union

mbrs-by-ref: ANY

as-set: AS-UNGP

remarks: members of this set declare to have adopted and implemented the United Nations Guiding Principles on Business and Human Rights

mbrs-by-ref: ANY

SELF-DESCRIBED AND SELF-DEFINED

Questions:

- Can this be done with the RIPE database?
- Are these the right values?
- Is this a model you would use?
- Are there better models to accommodate different values in a transparent, flexible, iterative, manner?

WHY DO WHALES JUMP
WHY ARE WITCHES GREEN
WHY ARE THERE MIRRORS ABOVE BEDS

WHY DO I SAY UH
WHY IS SEA SALT BETTER

WHY ARE THERE TREES IN THE MIDDLE OF FIELDS
WHY IS THERE NOT A POKEMON MMO
WHY IS THERE LAUGHING IN TV SHOWS
WHY ARE THERE DOORS ON THE FREEWAY
WHY ARE THERE SO MANY SUCHOSTEXE RUNNING
WHY AREN'T THERE ANY COUNTRIES IN ANTARCTICA
WHY ARE THERE SCARY SOUNDS IN MINECRAFT
WHY IS THERE KICKING IN MY STOMACH
WHY ARE THERE TWO SLASHES AFTER HTTP

WHY ARE THERE CELEBRITIES
WHY DO SNAKES EXIST

WHY DO OYSTERS HAVE PEARLS
WHY ARE DUCKS CALLED DUCKS
WHY DO THEY CALL IT THE CLAP

WHY ARE KYLE AND CARTMAN FRIENDS
WHY IS THERE AN ARROW ON AANG'S HEAD
WHY ARE TEXT MESSAGES BLUE

WHY ARE THERE MUSTACHES ON CLOTHES
WHY ARE THERE MUSTACHES ON CARS
WHY ARE THERE MUSTACHES EVERYWHERE

WHY ARE THERE SO MANY BIRDS IN OHIO
WHY IS THERE SO MUCH RAIN IN OHIO
WHY IS OHIO WEATHER SO WEIRD

WHY ARE THERE MALE AND FEMALE BIKES

WHY ARE THERE BRIDESMAIDS
WHY DO DYING PEOPLE REACH UP
WHY AREN'T THERE VARIOUS PROBABILITIES
WHY ARE OLD RUNGONS DIFFERENT



WHY IS PROGRAMMING SO HARD
WHY IS THERE A 0 OHM RESISTOR
WHY DO AMERICANS HATE SOCCER
WHY DO RHYMES SOUND GOOD
WHY DO TREES DIE
WHY IS THERE NO SOUND ON CNN
WHY AREN'T POKEMON REAL
WHY AREN'T BULLETS SHARP
WHY DO DREAMS SEEM SO REAL

WHY DO TESTICLES MOVE
WHY ARE THERE PSYCHICS
WHY ARE HATS SO EXPENSIVE
WHY IS THERE CAFFEINE IN MY SHAMPOO
WHY DO YOUR BOOBS HURT

WHY DO IGUANAS DIE

WHY AREN'T ECONOMISTS RICH

WHY DO AMERICANS CALL IT SOCCER
WHY ARE MY EARS RINGING

WHY ARE THERE SO MANY AVENGERS
WHY ARE THE AVENGERS FIGHTING THE X MEN
WHY IS WOLVERINE NOT IN THE AVENGERS

WHY IS EARTH TILTED
WHY IS SPACE BLACK
WHY IS OUTER SPACE SO COLD
WHY ARE THERE PYRAMIDS ON THE MOON
WHY IS NASA SHUTTING DOWN

WHY ARE THERE TINY SPIDERS IN MY HOUSE
WHY DO SPIDERS COME INSIDE

WHY ARE THERE HUGE SPIDERS IN MY HOUSE
WHY ARE THERE LOTS OF SPIDERS IN MY HOUSE
WHY ARE THERE SPIDERS IN MY ROOM
WHY ARE THERE SO MANY SPIDERS IN MY ROOM

WHY DO SPIDER BITES ITCH
WHY IS DYING SO SCARY

WHY IS THERE NO GPS IN LAPTOPS
WHY DO KNEES CLICK
WHY AREN'T THERE E GRADES
WHY IS ISOLATION BAD

WHY DO BOYS LIKE ME
WHY DON'T BOYS LIKE ME
WHY IS THERE ALWAYS A JAVA UPDATE
WHY ARE THERE RED DOTS ON MY THIGHS
WHY IS LYING GOOD

WHY IS SEX SO IMPORTANT



WHY ARE THERE SLAVES IN THE BIBLE
WHY DO TWINS HAVE DIFFERENT FINGERPRINTS
WHY ARE AMERICANS AFRAID OF DRAGONS

WHY IS HTTPS CROSSED OUT IN RED
WHY IS THERE A LINE THROUGH HTTPS
WHY IS THERE A RED LINE THROUGH HTTPS ON FACEBOOK
WHY IS HTTPS IMPORTANT

WHY ARE THERE SO MANY CROWS IN ROCHESTER, NY

WHY IS PSYCHIC WEAK TO BUG
WHY DO CHILDREN GET CANCER
WHY IS POSEIDON ANGRY WITH ODYSSEUS

WHY IS THERE ICE IN SPACE

WHY ARE THERE DOGS AFRAID OF FIREWORKS
WHY IS THERE NO KING IN ENGLAND

WHY ARE THERE AN OWL IN MY BACKYARD
WHY IS THERE AN OWL OUTSIDE MY WINDOW
WHY IS THERE AN OWL ON THE DOLLAR BILL

WHY DO OWLS ATTACK PEOPLE
WHY ARE AK 47s SO EXPENSIVE

WHY ARE THERE HELICOPTERS CIRCLING MY HOUSE
WHY ARE THERE GODS
WHY ARE THERE TWO SPOCKS

WHY IS MT VESUVIUS THERE
WHY DO THEY SAY T MINUS
WHY ARE THERE OBELISKS

WHY ARE WRESTLERS ALWAYS WET
WHY ARE OCEANS BECOMING MORE ACIDIC

WHY IS ARWEN DYING
WHY AREN'T MY QUAIL LAYING EGGS
WHY AREN'T MY QUAIL EGGS HATCHING

WHY AREN'T THERE ANY FOREIGN MILITARY BASES IN AMERICA

WHY ARE ULTRASOUNDS IMPORTANT
WHY ARE ULTRASOUND MACHINES EXPENSIVE
WHY IS STEALING WRONG

WHY AREN'T MY ARMS GROWING

WHY ARE THERE SURVIVORS OF DANTES
WHY IS THERE PHLEGM

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if write code(protocols):  
    consider human rights implications  
elif run internet infrastructure:  
    respect human rights  
elif engage in internet governance:  
    build in human rights protections  
else  
    carry on and use FLOSS
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References

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Slide 5: Clark, D., John Wroclawski, Karen R. Sollins, and Robert Braden. 2005. "Tussle in Cyberspace: Defining Tomorrow's Internet." IEEE/ACM Trans. Netw. 13 (3): 462-475.

Slide 7: Clark, David D. 2018. Designing an Internet. 1st edition. Cambridge, MA: The MIT Press.

Slide 10 : codeburst.io

<https://codeburst.io/gdpr-all-you-need-to-know-to-be-compliant-5f377dbff68a>

Slide 12: Business and Human Rights Resource Centre

Slide 15: XKCD 1256 <https://www.xkcd.com/1256/>
https://www.explainxkcd.com/wiki/index.php/1256:_Questions