



**RIPE
NCC**

Tools and measurements

4 March 2014

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- RIPE Atlas
- RIPE Stat



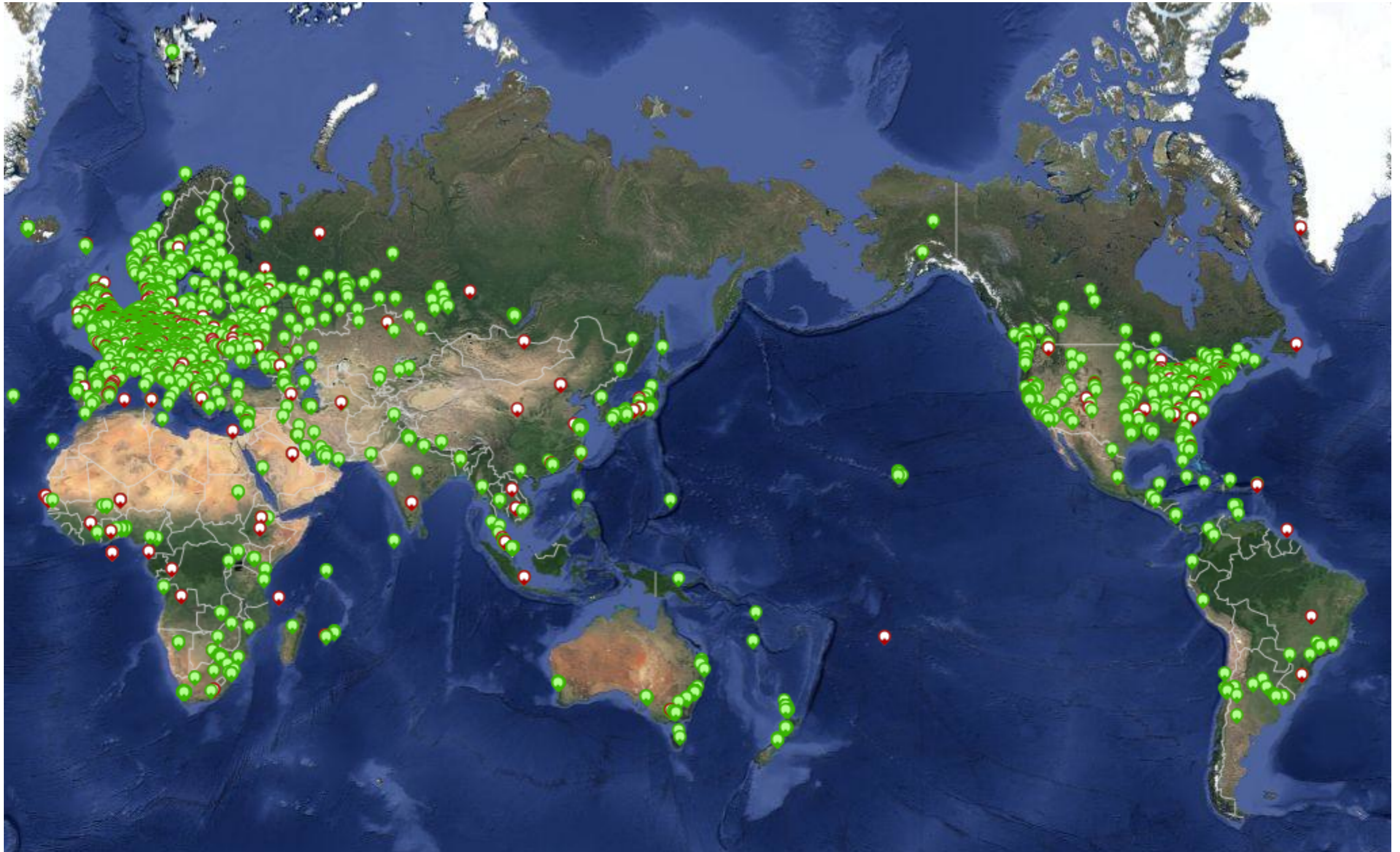
RIPE Atlas

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- 4,900+ active probes
 - 2,100+ IPv6-enabled
- 10,000+ Registered users

RIPE Atlas deployment



- Ping
- Traceroute
- DNS
- SSL
- All on both IPv4 and IPv6

- 4900+ probes, from different networks, at your fingertips
- Run customised, one-off measurements
 - Or continuous ones
- You need points: You earn points by hosting a probe, or by being an LIR

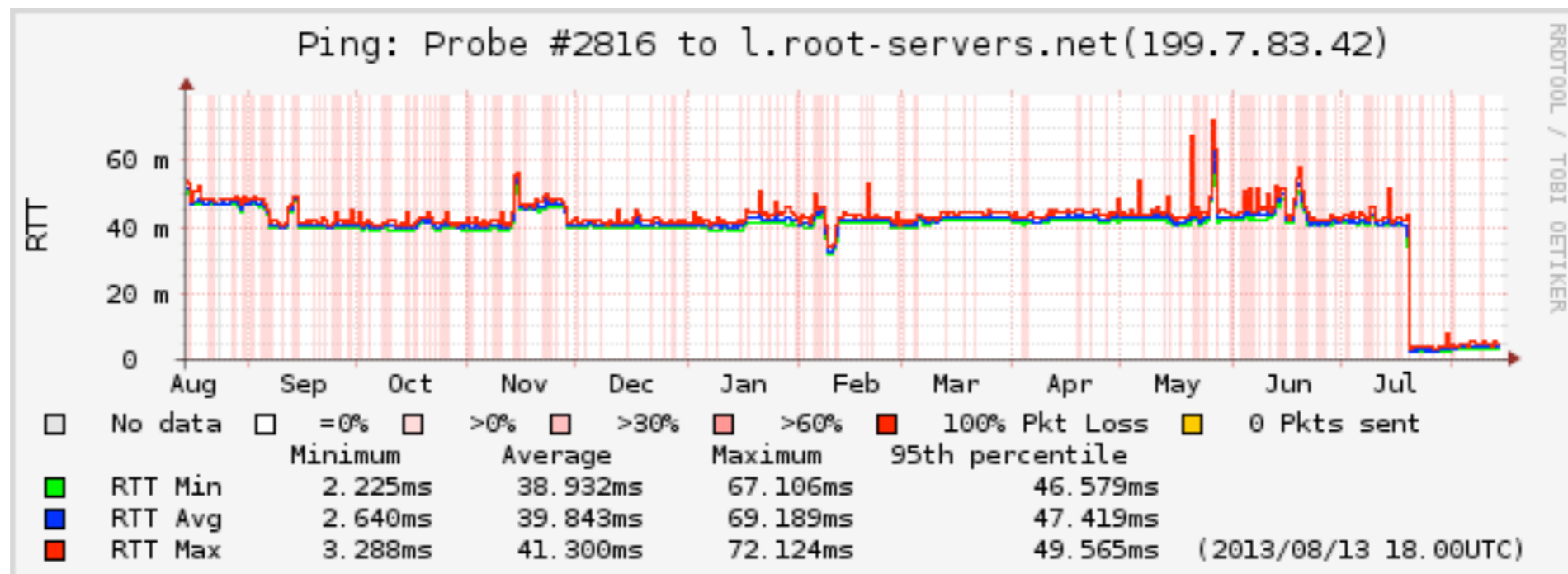
- Built-in measurement data is **available to everyone**
 - Maps
 - Data from public probes
 - API to download raw data

- Anybody can host a probe
- On any kind of network
- Probes are handed/shipped for free
- Ask me for one, at the RIPE NCC table



- Well-known targets for measurements
- 41 Installed so far
- Every anchor is targeted by 200 probes
- Each probe measures 4-5 anchors
- Any company/operator can host one
 - More info: <https://atlas.ripe.net/about/anchors/>

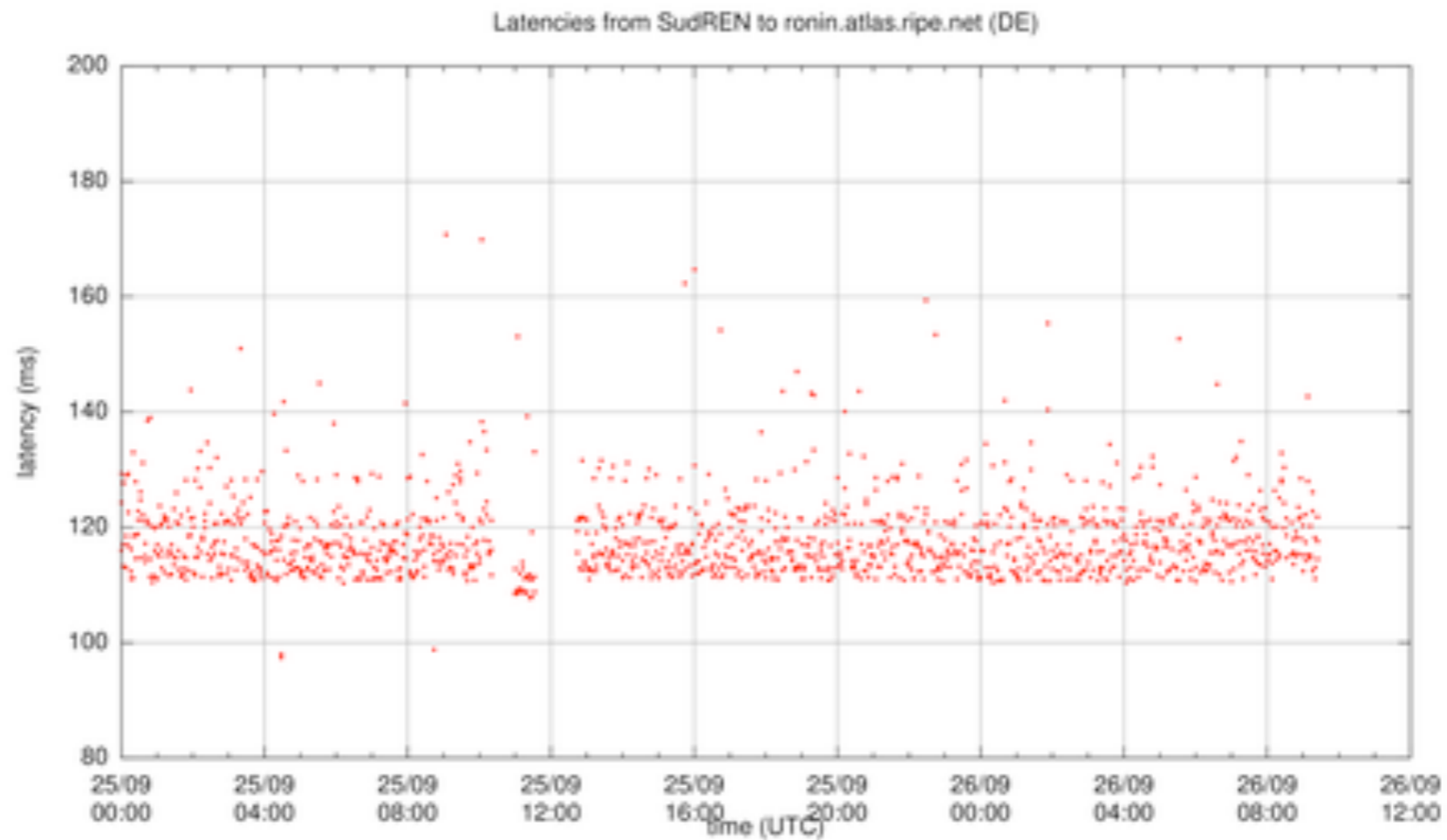
- Effect of installing L-Root in Belgrade/SOX



- Looking for most popular instances of .fr anycast

Name server instance	Nr. of probes connecting to instance	Percentage
dns.th2.nic.fr	173	36%
dns.fra.nic.fr	173	36%
dns.lon.nic.fr	47	10%
dns.lyn2.nic.fr	29	6%
dns.lyn1.nic.fr	25	5%
dns.bru.nic.fr	19	4%
dns.ix1.nic.fr	18	4%

- Measuring internet outage in Sudan



<http://atlas.ripe.net>



RIPE Stat

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- “One-stop-shop” for information about internet number resources

- Registration Data
- RIPE Database
- Routing
- Reverse DNS
- RIPE Atlas measurements

- IRR
- RIRs
- Geolocation
- Blacklists
- M-Lab network activity

Search box



Widgets

A screenshot of the RIPEstat interface for AS3333. On the left is a sidebar with 'At a Glance' (4) and several tabs: Routing (410), DNS (0), Anti Abuse (0), Database (0), Geographic (0), and Activity (0). The main content area contains five widgets: 1. 'AS Overview (AS3333)' showing 'RIPE-NCC-AS - Réseau IP Européens Network Coordination Centre (RIPE NCC)'. 2. 'Geoloc (AS3333)' with a map of Europe highlighting Germany. 3. 'Registry Browser (AS3333)' displaying a list of roles for 'aut-num: AS3333'. 4. 'Routing Status (AS3333)' showing visibility statistics: 'AS3333 is visible by 100% of 137 IPv4 and 100% of 102 IPv6 RIR full peers'. 5. A 'Routing Status' widget with a green checkmark and text: 'AS3333 is visible by 100% of 137 IPv4 and 100% of 102 IPv6 RIR full peers. First ever seen before Jan 2001. Originated IPv4 prefixes: 0. Originated IPv6 prefixes: 1. Observed BGP neighbours: 100. Address space announced (IPv4): 4808 IPs. Address space announced (IPv6): equiv. to 1 /RIRs'. Each widget has a 'source data', 'embed code', 'permalink', and 'info' link at the bottom.

Widgets grouped into thematic tabs

- IPv4
- IPv6
- AS Number
- Hostname
- Country
- Keywords

- BGPlay2
- Abuse finder
- Customisable “My views”
- History view for RIPE NCC members/LIRs
- Embed widgets on your site

<http://stat.ripe.net>



The End!

Край

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Finvezh

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پایان

Lõpp

Beigas

Vége

Son

An Críoch

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Einde

Конец

Slut

Slutt

დასასრული

Pabaiga

Fim

Amaia

Loppu

Tmíem

Koniec

