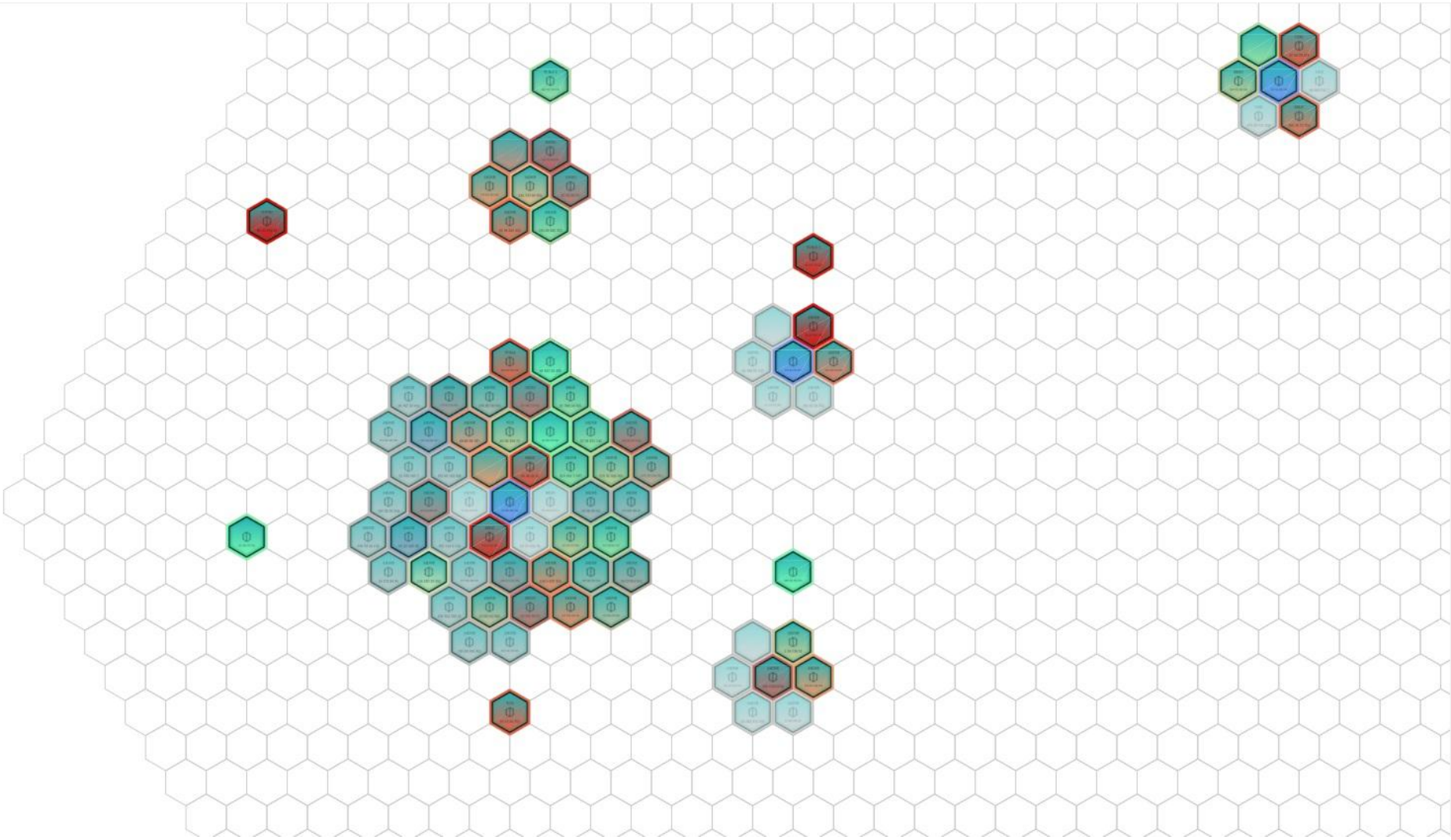
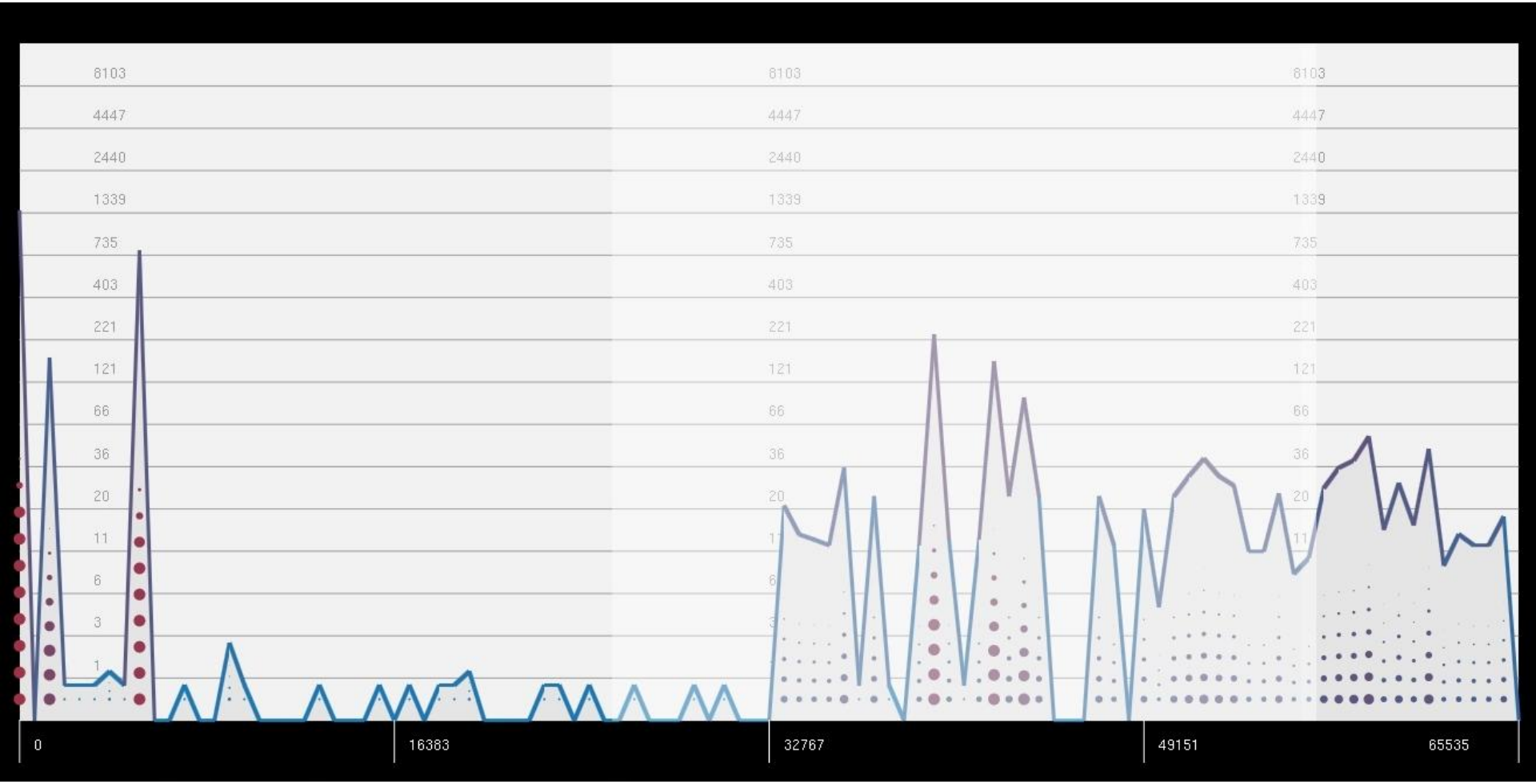
Design Goals

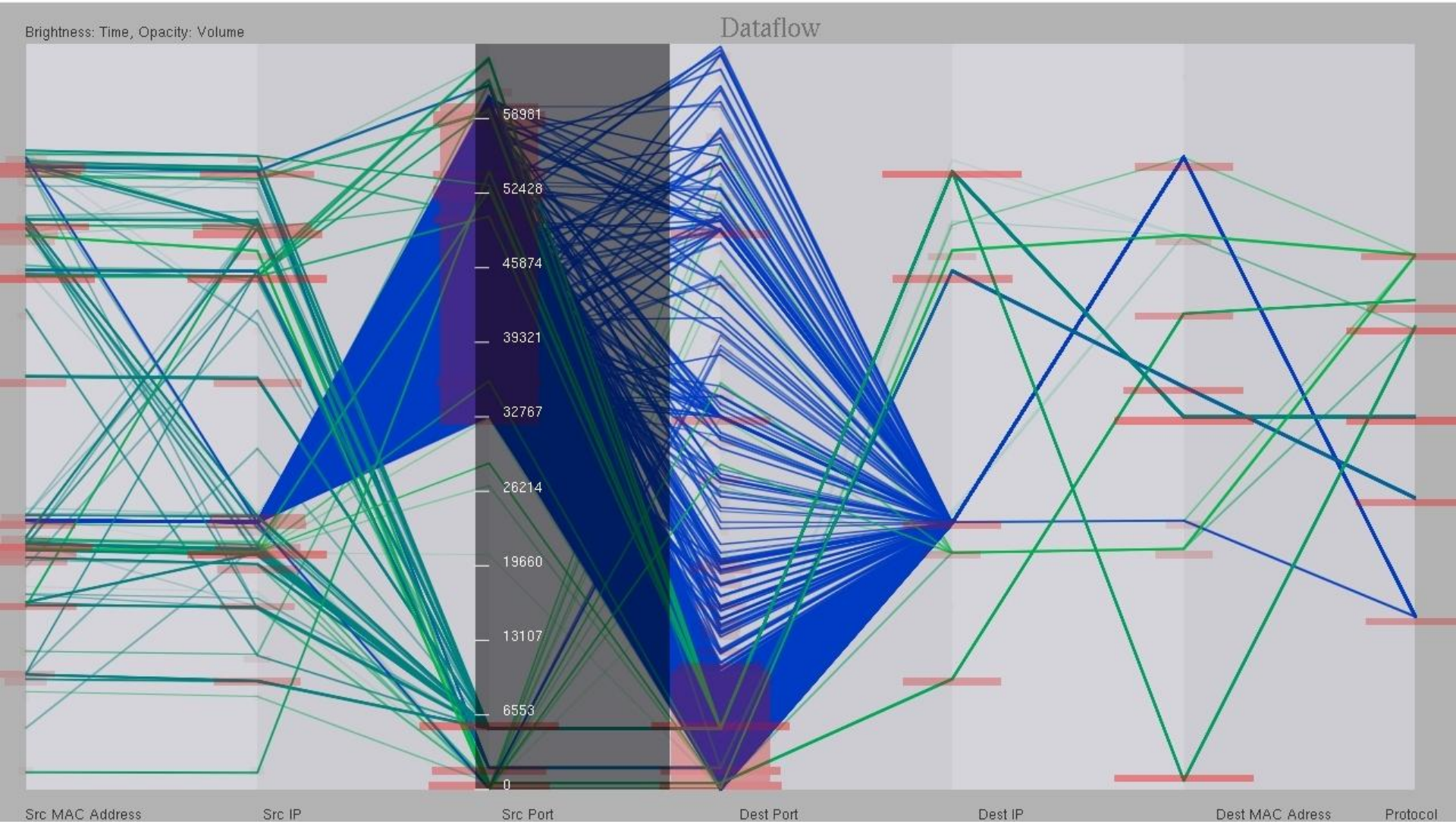
- Clarity
- Interconnectivity
- Modularity

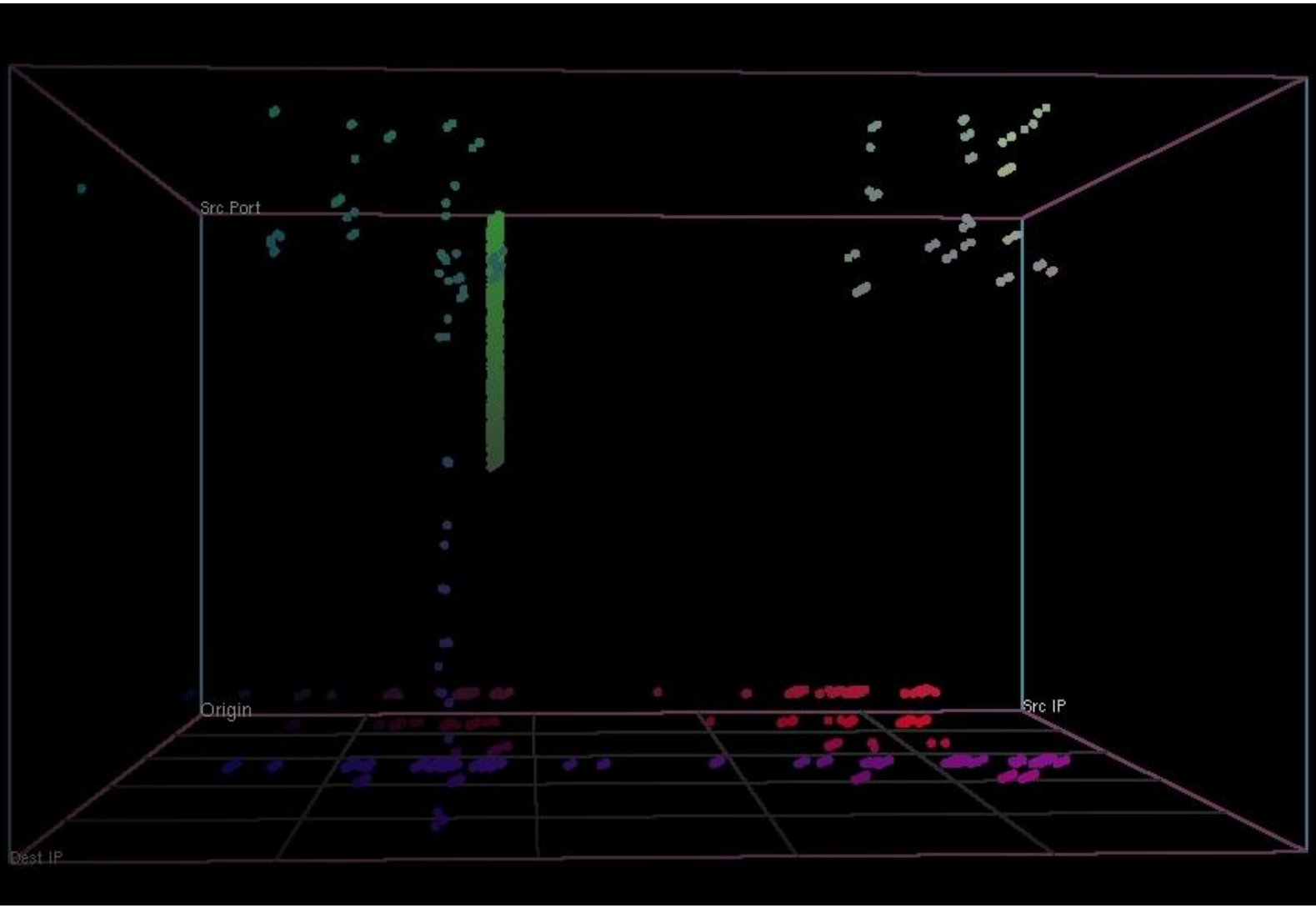
Clarity

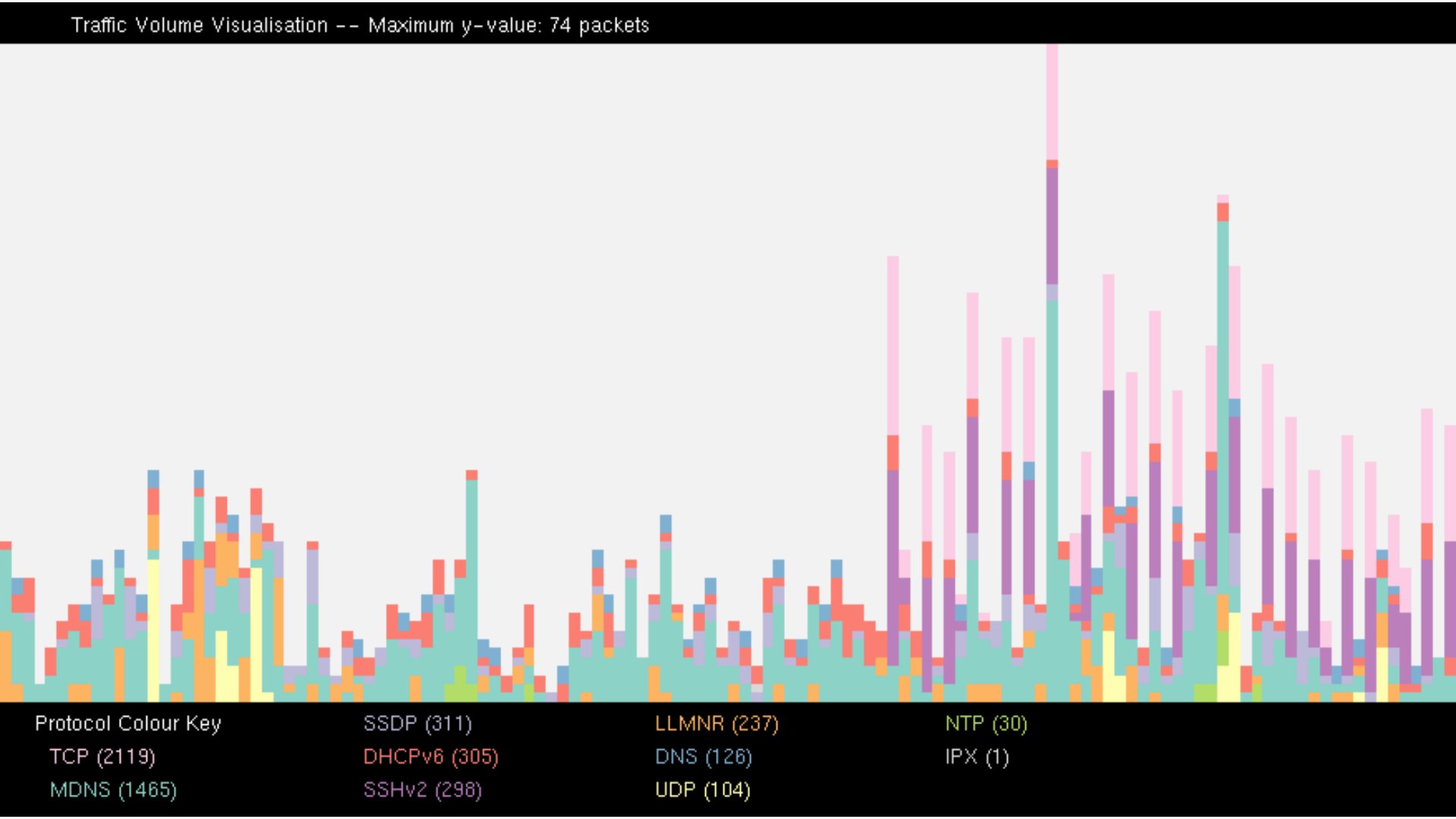
- Visualizations designed to show one or two things
- Simplicity makes relevant information obvious
- Customisability removes extraneous data




8103
4447
2440
1339
735
403
221
121
66
36
20
11
6
3
1
0
16383
32767
49151
65535


Brightness: Time, Opacity: Volume
Dataflow
58981
52428
45874
39321
32767
26214
19660
13107
6553
0
Src MAC Address
Src IP
Src Port
Dest Port
Dest IP
Dest MAC Adress
Protocol

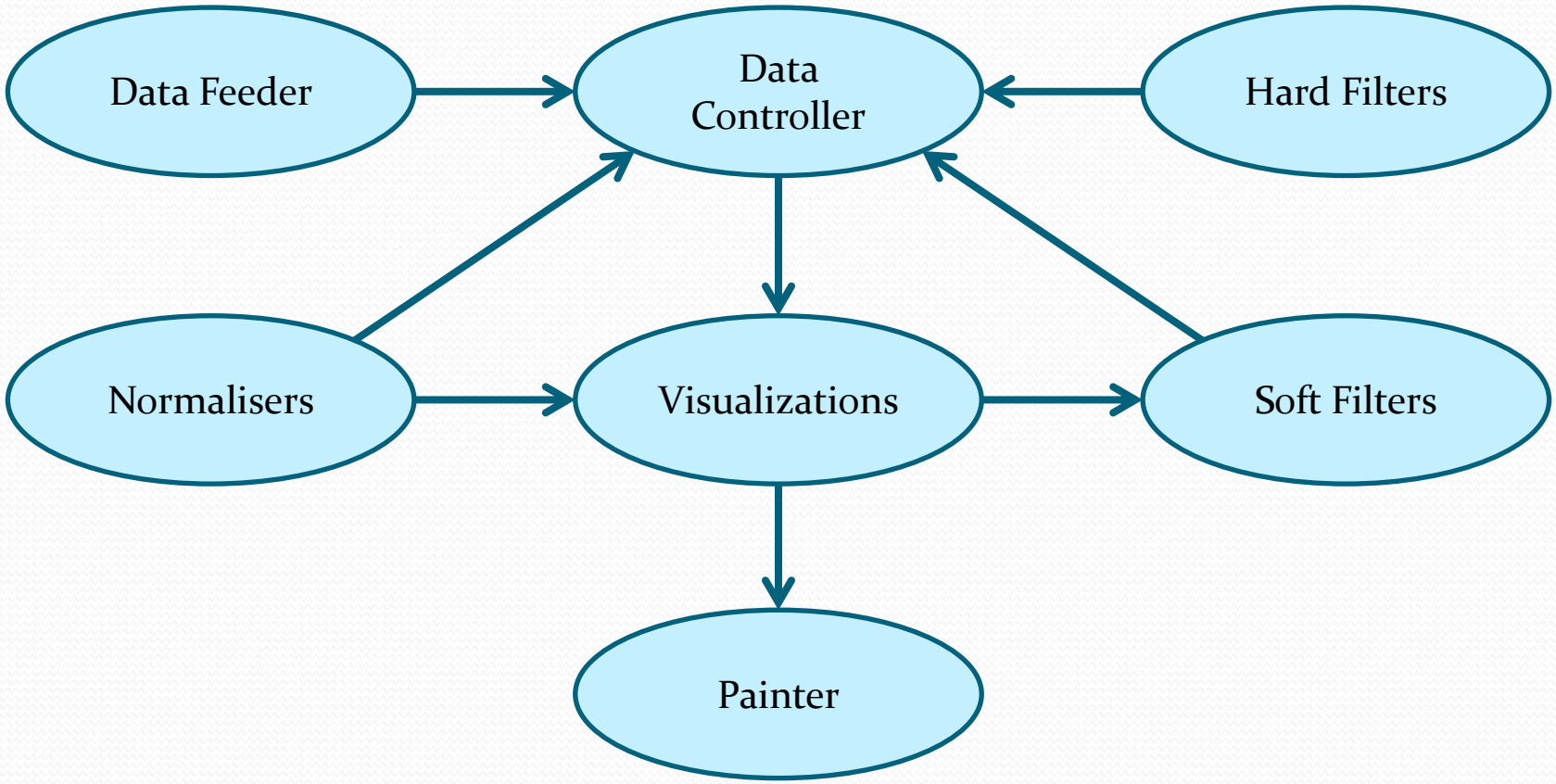

Src Port
Origin
Src IP
Dest IP


Traffic Volume Visualisation -- Maximum y-value: 74 packets
Protocol Colour Key
TCP (2119)
MDNS (1465)
SSDP (311)
DHCPv6 (305)
SSHv2 (298)
LLMNR (237)
DNS (126)
UDP (104)
NTP (30)
IPX (1)

Interconnectivity

- Trade-off between clarity and depth
- Data from one visualization can be explored in another
- Use both hard and soft filters to focus on areas of interest

Modularity


Data Feeder
Data Controller
Hard Filters
Normalisers
Visualizations
Soft Filters
Painter