BGPlay.js

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The dear old BGPlay

- **BGPlay** was created by the [Computer Networks Research Group](#) at Roma Tre University in 2004.

- It was a Java applet for the visualization of animated and interactive graphs of the routing activity related to an Internet prefix.
  - Hosted for 5 years by RIPE NCC [RIPE NCC](#)
  - Currently used in the Route View Project (Oregon University)

- **Other tools:**
  - BGPlay Island
  - BGPath
  - iBGPlay
  - Historical BGPlay
The dear old BGPlay
What’s new: BGPlay.js

BGPlay.js is the new web-app improving the key features of BGPlay and introducing many new ones

Integrated as a RIPEstat widget!
BGPlay.js live demos

• Legend explanation:

  - https://stat.ripe.net/widget/bgplay#w.resource=193.0.0.0/21&w.ignoreReannouncements=true&w.starttime=1368419088&w.endtime=1368534288&w.instant=null&w.type=bgp&w.rrcs=0,1,6,7,11,13,15,3,4,5,10,12,14

• Syria blackout (7-8 May):

  - https://stat.ripe.net/widget/bgplay#w.resource=185.4.84.0/22&w.ignoreReannouncements=true&w.starttime=1367942097&w.endtime=1368028497&w.rrcs=0,1,3,4,5,6,7,10,11,12,13,14,15&w.instant=null&w.type=bgp

• Syria blackout (15 May):

  - https://stat.ripe.net/widget/bgplay#w.resource=95.212.144/20&w.ignoreReannouncements=true&w.starttime=1368594000&w.endtime=1368660803&w.instant=null&w.type=bgp&w.rrcs=0
Our goals

• A long-lasting framework which simplifies the creation of new tools for the representation of evolving networking data

• No specific external dependencies

• Usable also from mobile devices

• No specific data-set, no complex server-side computation
A long-lasting framework

• Completely client-side

• Pure JavaScript

• Based on a stable core composed of nodes, paths and properties of these elements.

• The functionalities and the representation are provided by a set of modules, each of which completely isolated operating by means of events on an event aggregator
  • No one of the modules is needed
  • Each module deals with a specific function

BGPlay.js is the first tool (a set of modules) implemented with our framework
BGPlay.js common questions

- Is BGPlay.js open source? Yes
  - Get the code: https://github.com/compunet/BGPlay.js

- Can I visualize my data with BGPlay.js? Yes
  - You don’t need server-side computation
  - You can adapt your data to our JSON format, or..
  - You can use your format and adapt it with a client side wrapper

- Can I implement other visualizations/features? Yes
  - Implement your module as a Backbone.js View
  - Declare your module in modules.js
BGPlay.js common questions

• Can I embed a BGPlay.js graph into my blog? Yes
  – Just copy and past the embedding code like the other RIPEstat widgets
  – A set of parameters allows you to specify additional settings, like the initial layout, the initial instant, the possibility to prevent new queries and much more

• For more info: http://bgplayjs.com (coming soon)
Questions?