

[Visualization: 24 October 2012 Telecon](#) [1]



Submitted by sclark on Thu, 2012-10-25 12:20 Wednesday, October 24, 2012 - 02:00 to 03:00

Event: [Telecon Minutes](#) [2]

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Collaboration Area: [Visualization](#) [4]

Notes:

Presentation of VisKi by Nick Del Rio
PhD candidate, UTEP, El Paso

Advisor: Paulo Pinheiro, PNNL

VisKo: enabling visualization over the web

- not a new toolkit, a framework to register existing toolkits

Problem: sharing visualizations over the Web

- send an image
 - limitations: recipient can't adjust image to own needs
- send data
 - may be too big
 - recipient may not have skills, software or tools (supercomputer) to generate the image
- send URL of visualization embedded in view on web
 - only for specific domains like OGC for GIS

New Solution: VisKo

- pass a visualization query
- specification of visualization that can be generated over the web

DEMO:

(slides posted on web as well for DEMO)

- queries easy to share with people
- in view, if want to adjust parameters, can edit in query
- end-user still retains some control of the image

- enhanced usage of preferred toolkits
- if like NCL, if registered with VisKo can use it
- VisKo may also know of some other toolkits registered with it and can auto-generate visualizations using them for different image outputs
- run time of query is a little longer if don't specify the toolkit

Hybrid pipeline transforming data

Operator pipeline graph

- each node is a service
- snapshot of knowledge base

Joining VisKo: submit package to register with VisKo

- gives automated service discovery

- have a package template

Data

- if have data that you cannot visualize, need to register a service so can see it even if have to transform it through multiple services to get to that visualization

Discussion:

- helps data users use multiple toolkits, see data not completely familiar with

How generating RDF

- have to write module for it when submit package, part of the template

Can you submit a package like Matlab?

- licensing issue: might be able to get around if assured was only for use within organization

Can you output to a file? Or just a screen?

- depending on service

How handling provenance?

- when executes pipelines in VisKo, can execute with record of provenance
- returns query and PML query
- proof markup language
- RDF and ugly, not human consumption
- keeps execution trace

Can you use for general processing, without terminating in viewer?

- for general data processing have to register as a viewer
- benefits of having specific visualization viewer has termination point

Session Leads:

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Organization(s): [NASA](#) [6]

Presenters:

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