PAT

The future of Open Source Interactive OLAP

.....honest

PAT.... Er What?

We used to have a slide explaining the name, but we don't know ourselves so I removed it.

What PAT is.....

- Thin client, 100% Open Source OLAP Analysis Tool
  - Browse
  - Explore
  - Slice and Dice
  - Visualize
- Business user friendly JPivot replacement
- Standalone and BI Server Integration
- Works with any XML/A data source (Mondrian, MS Analysis Services, SAP BW....)

Some Quick Stats

- Completely Community Driven
- 29,391 Lines of Java Code
- 2 Core Developers (Part Time)
- 8 Unique SVN Commiters
- $467k Projected Project Cost

  (Stats from Ohloh)

PAT Technologies

- Frontend:
  - GWT(http://code.google.com/webtoolkit)
  - GWT Mosaic(http://code.google.com/p/gwt-mosaic)
  - HTML + CSS
  - Flash (for now)
- Backend
  - Normal Java + GWT Servlets
  - Spring Security
  - Olap4J(http://olap4j.org)

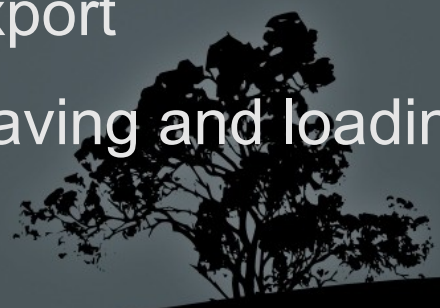
PAT History

- December 2008 Tom and Paul fork Halogen
- Feburary 2009 – 0.1 (gwt-ext, maven)
- April 2009 – 0.2 (gwt-mosaic, basic DnD, XML/A)
- June 2009 – 0.3 (GWT 1.6, new table, multiple queries)
- July 2009 – 0.4 (GUI Improvement, advanced table, basic bi-server integration)
- October 2009 – 0.5b (Persistence layer, GUI rewrite, basic charting, dimension browser, drill support)
- March 2010 – 0.6 (New and improved BI Server plugin, new query design widgets, excel export, mdx input and color coded formatting, beta query saving and loading)
- Near future – 1.0 released alongside the Sugar BI Server

PAT Demo

What can PAT do already?

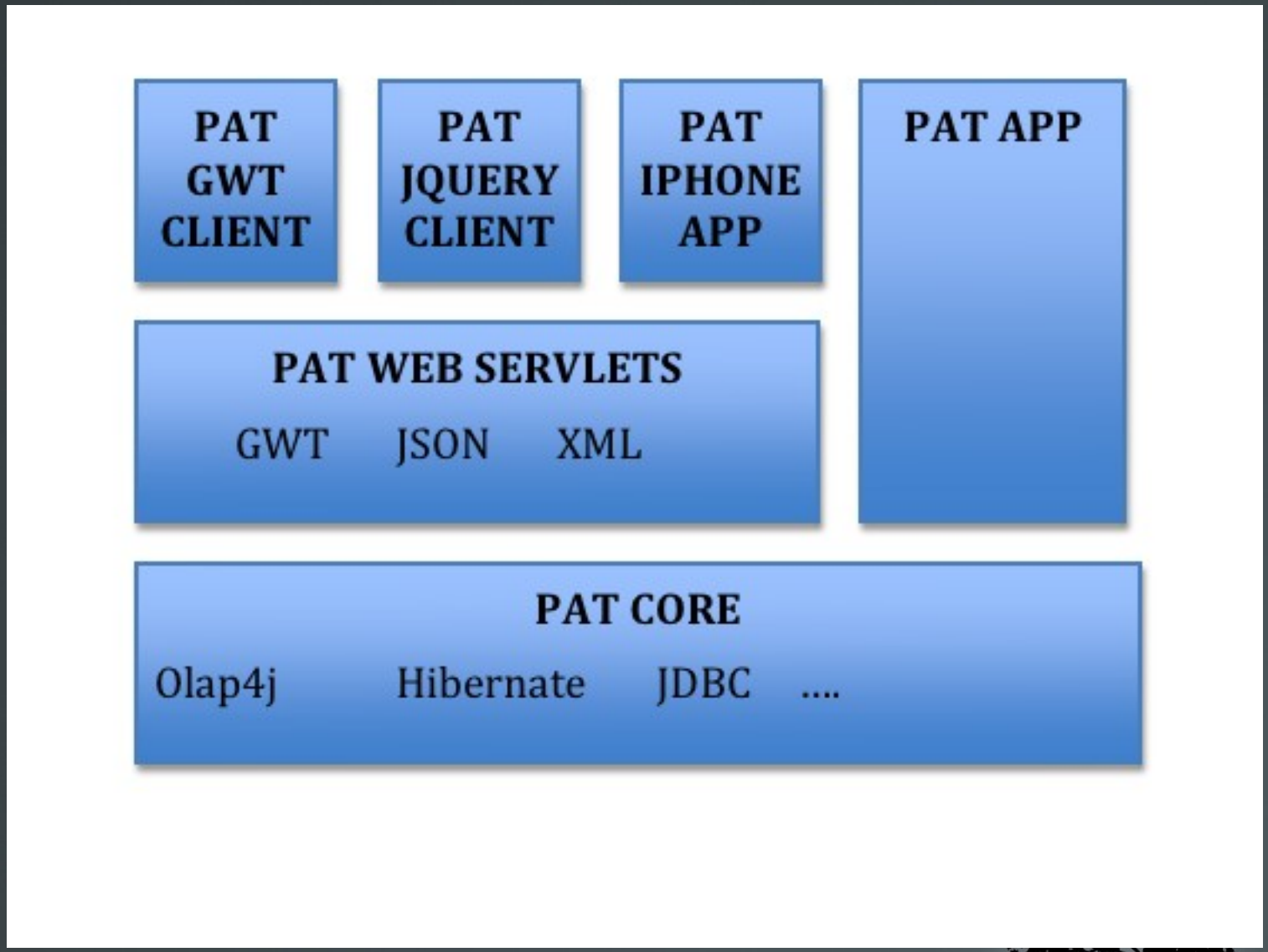
- Connect to its internal Mondrian instance
- Connect to any XML/A data source
- Discover all available cubes
- Query without any user written MDX
- Tabbed multiple query support
- Drag and drop query generation
- Browse your dimensions
- Drill down(drill expand, drill replace)
- Drillable Charts
- MDX query support
- Swap axis
- Sort
- Translated into 8 languages
- Excel export
- Query saving and loading



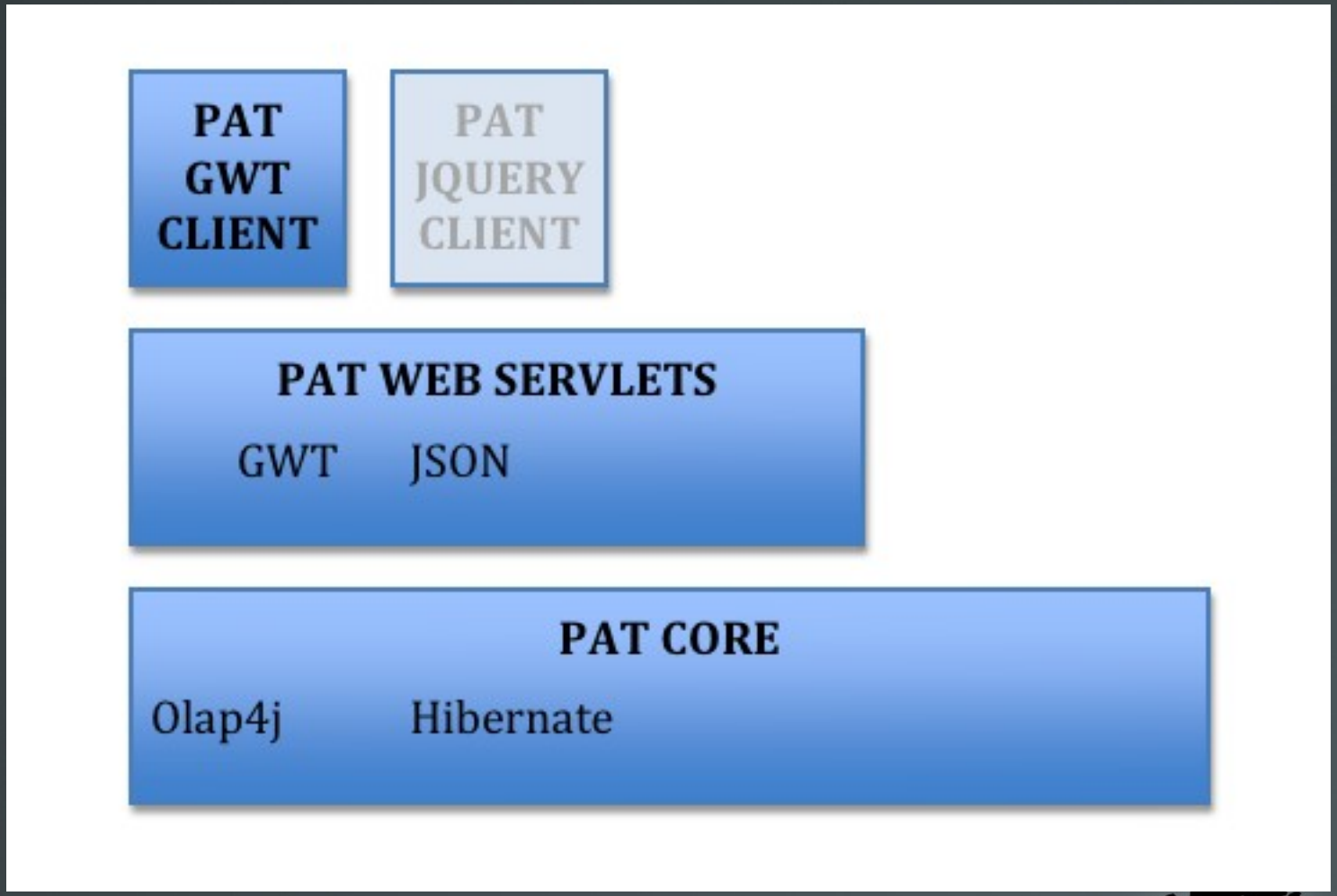
What is on the PAT roadmap?

- Mondrian writeback
- Visual totals
- Calculated member wizard
- Sparklines
- 'Smart' cells
- Scriptable visualizations
- More drag and drop functionality

PAT Architecture 2.0

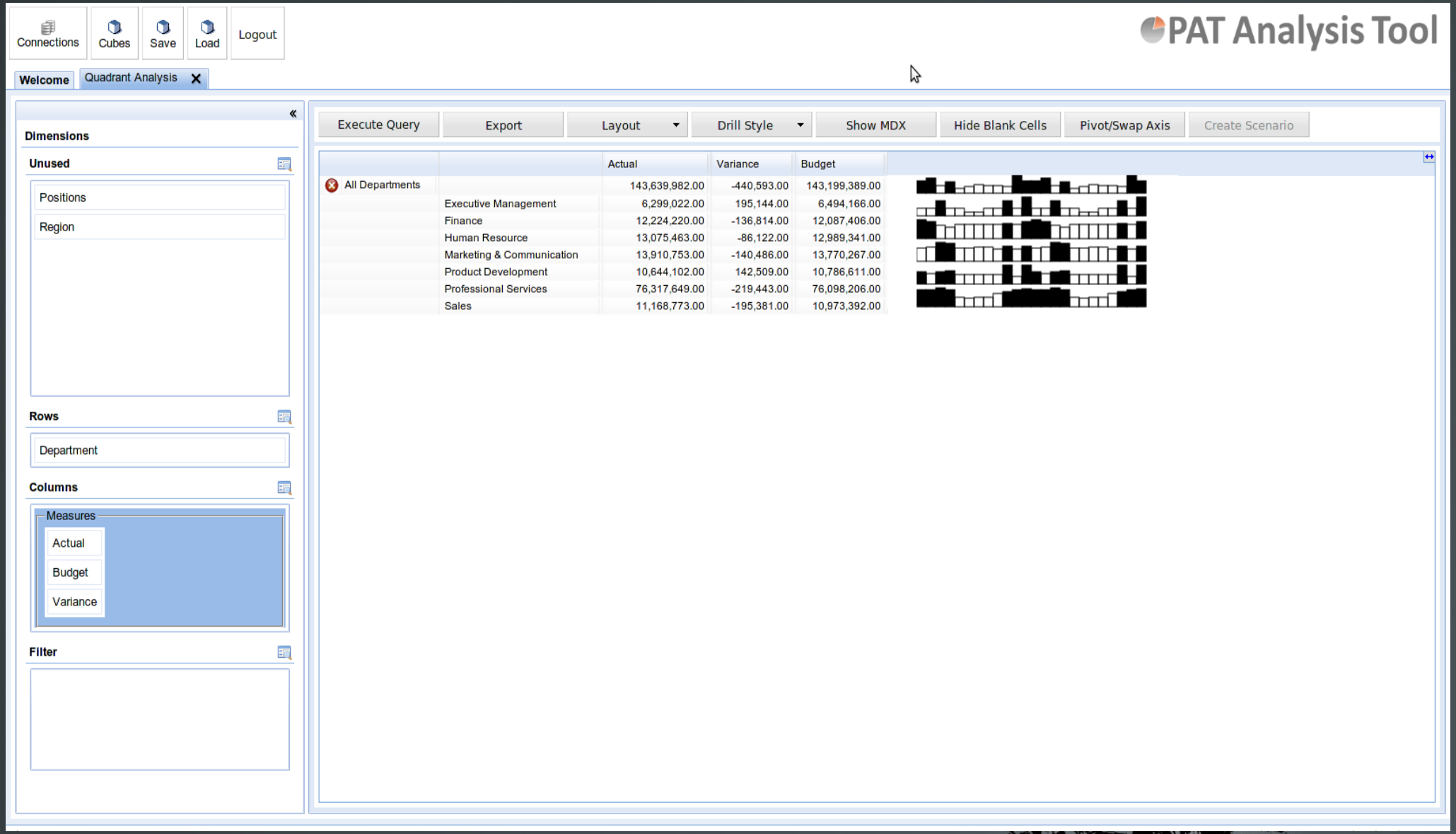


PAT Architecture 2.0



Here are some mockups I made earlier.....

Sparklines


Connections
Cubes
Save
Load
Logout
PAT Analysis Tool
Welcome
Quadrant Analysis
Dimensions
Unused
Positions
Region
Rows
Department
Columns
Measures
Actual
Budget
Variance
Filter
Execute Query
Export
Layout
Drill Style
Show MDX
Hide Blank Cells
Pivot/Swap Axis
Create Scenario
Actual
Variance
Budget
All Departments
143,639,982.00
-440,593.00
143,199,389.00
Executive Management
6,299,022.00
195,144.00
6,494,166.00
Finance
12,224,220.00
-136,814.00
12,087,406.00
Human Resource
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-86,122.00
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-219,443.00
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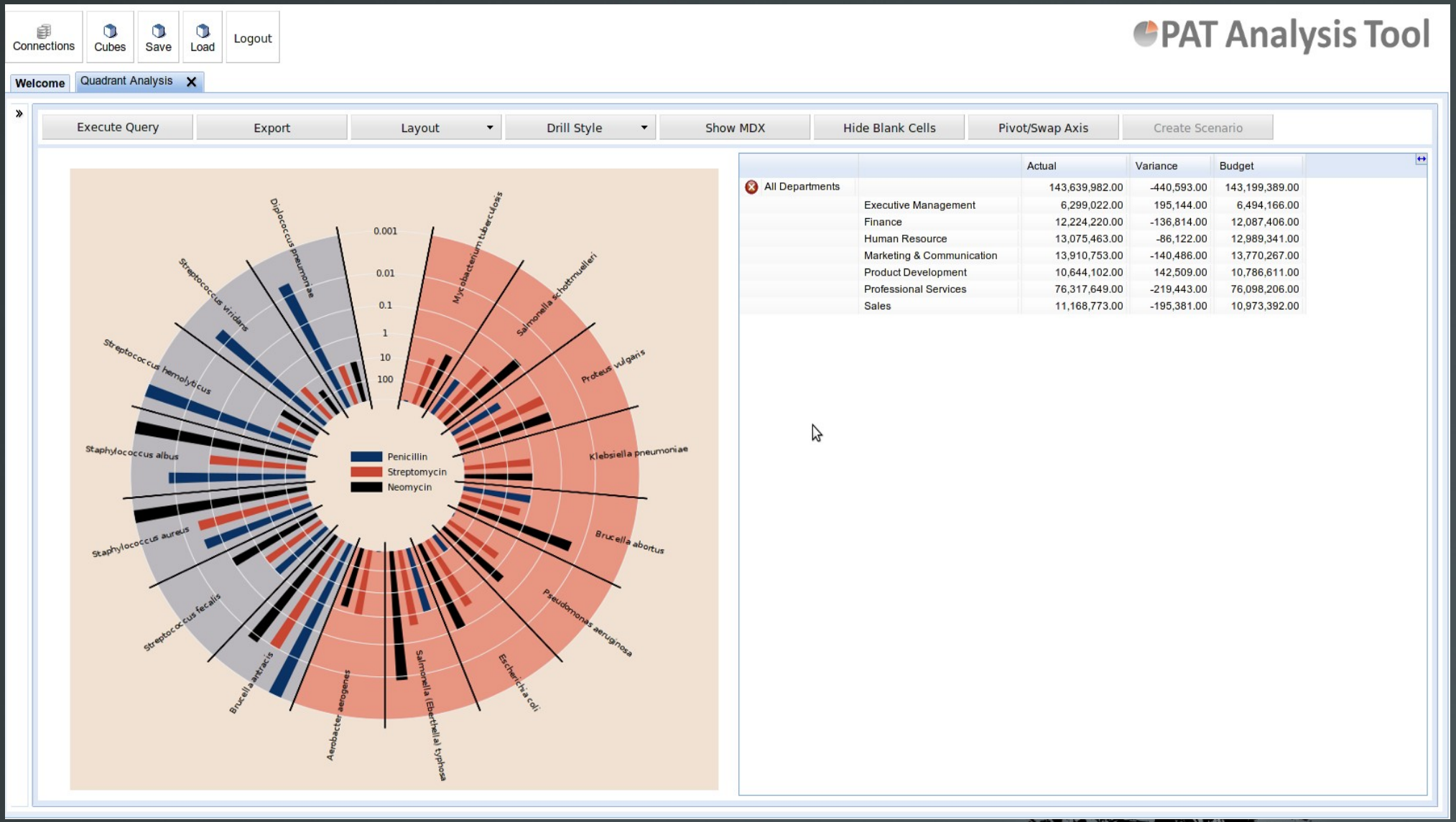
Sales
11,168,773.00
-195,381.00
10,973,392.00

Protovis integration....



		Actual	Variance	Budget
All Departments		143,639,982.00	-440,593.00	143,199,389.00
	Executive Management	6,299,022.00	195,144.00	6,494,166.00
	Finance	12,224,220.00	-136,814.00	12,087,406.00
	Human Resource	13,075,463.00	-86,122.00	12,989,341.00
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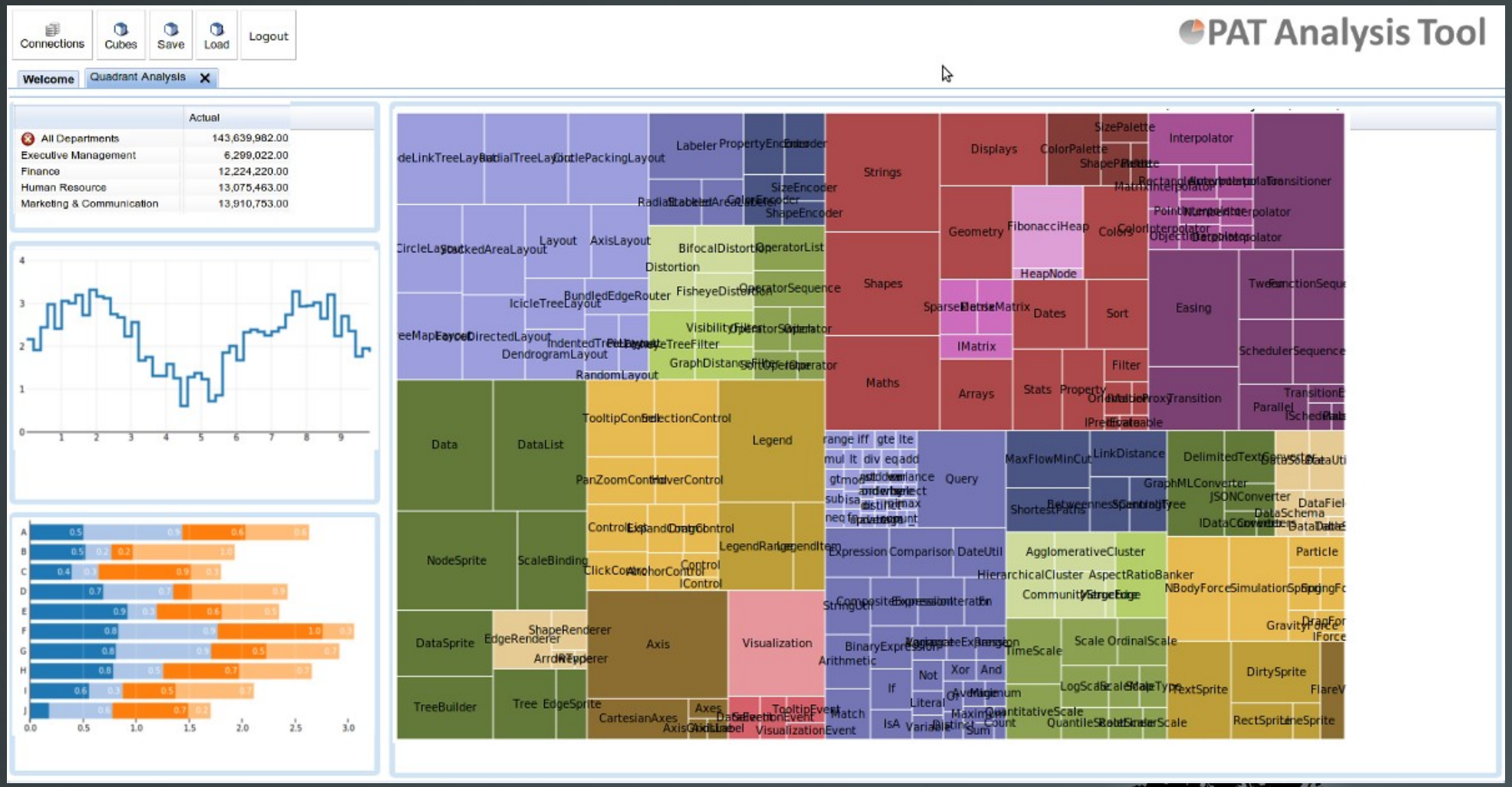
Rich layout



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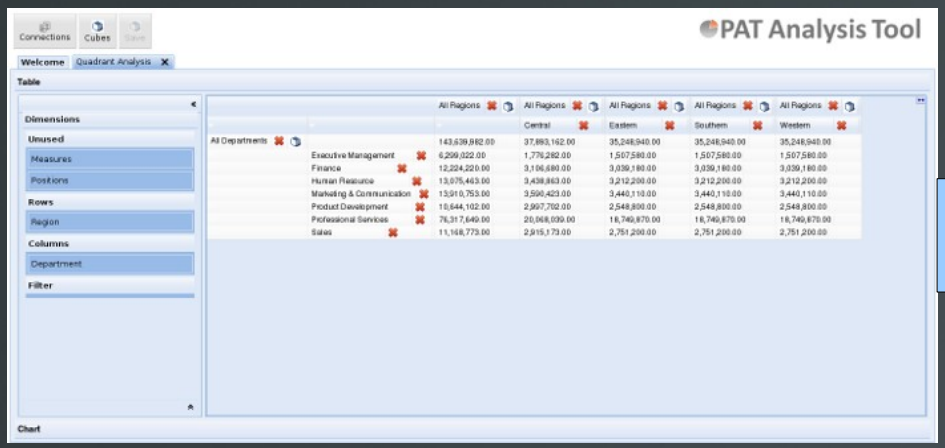
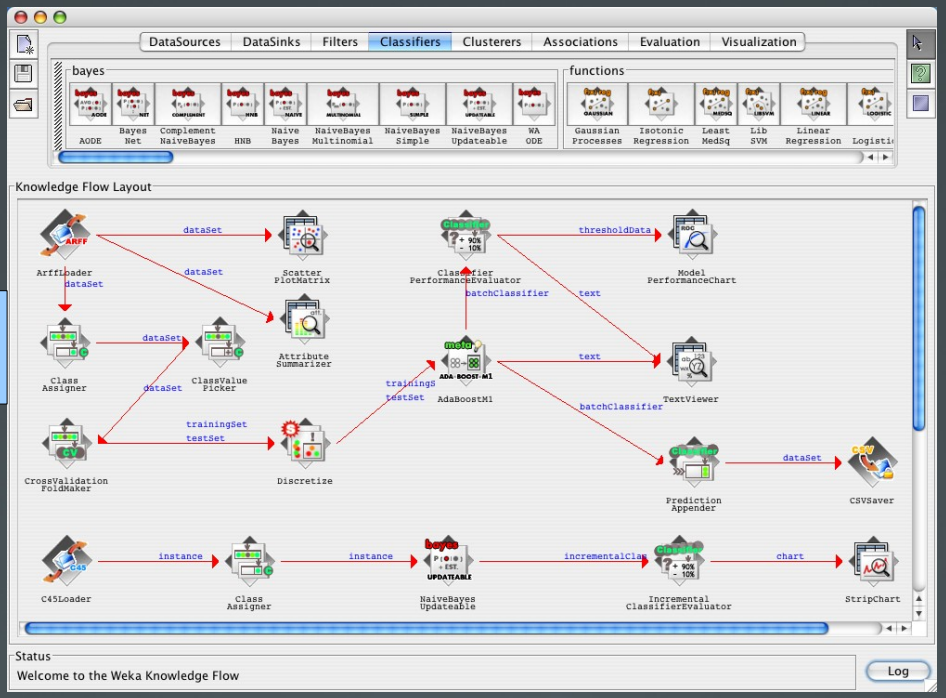
Strings
Displays
Interpolator
Geometry
Shapes
Dates
Sort
Easing
Maths
Arrays
Stats
Filter
Data
DataList
Legend
Query
NodeSprite
ScaleBinding
DataSprite
Axis
Visualization
TreeBuilder
Tree
Particle

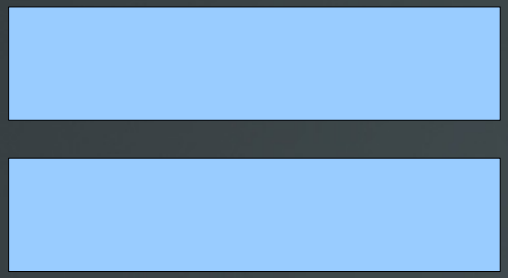
What about.....

PAT



WEKA





Predictive OLAP

More Importantly What Would You Like To See?

http://www.surveymonkey.com/s/T7CRWQ5

PAT is cool as hell for a community run project, how can I help?

- Testing
- Suggesting functionality
- Coding
- CSS Theming
- PAT Logo
- Icon set
- Translation maintenance
- Documentation
- <ahem>Paypal</ahem>
- USING IT!

Contact us

- PAT Project Base : http://code.google.com/p/pentahoanalysistool
- PAT Online Demo: http://212.227.135.127:8080/pat-0.6/
- PAT Continous Integration Builds: http://212.227.135.127:8080/hudson/
- PAT Wiki http://code.google.com/p/pentahoanalysistool/wiki/StartPage?tm=6
- Google Groups
  - Users: http://groups.google.com/group/pentahoanalysistool-users
  - Developers: http://groups.google.com/group/pentahoanalysistool-dev
- IRC Channel : ##pentaho.pat @ Freenode.net
- Bug Reports / Feature Requests : http://jira.pentaho.com/browse/PAT