Open Source Software for AnIML

201

Jamie McQuay Scimatic Software Toronto, Canada



AnIML Tools

- Open Source components (C#, Microsoft .Net) for AnIML
- First Open Source .Net solution available
- Hosted on Sourceforge
- LGLP licensing (can be used in commercial products)



AnIML Tools

- Open Source components (C#, Microsoft .Net) for AnIML
- First Open Source .Net solution available
- Hosted on Sourceforge
- LGLP licensing (can be used in commercial products)

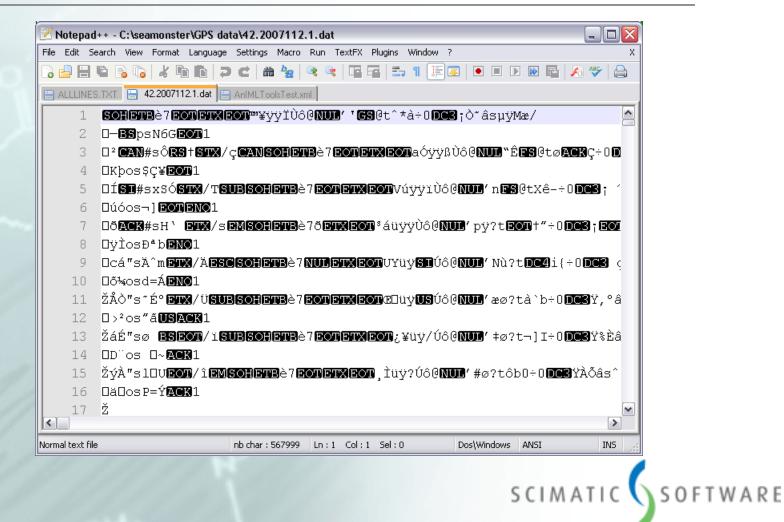
Why did you start AnIML Tools? Why Open Source?



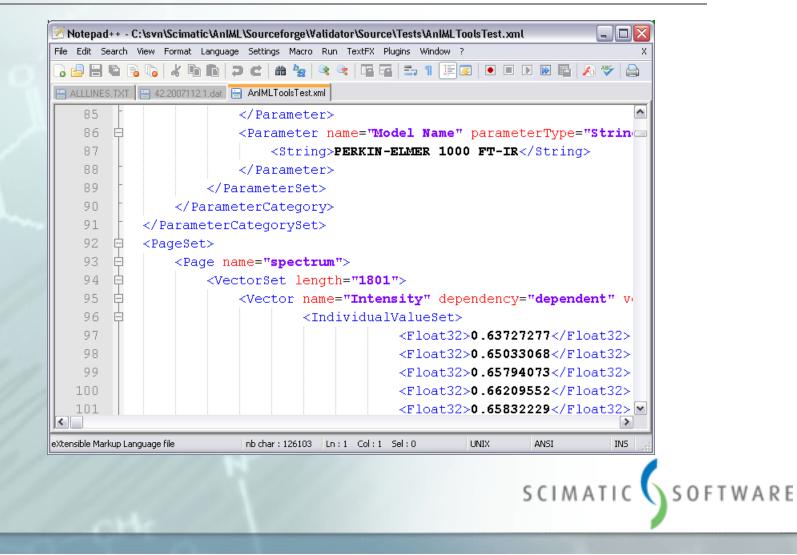
Security?

	· ·			-	· ·	ectral\ALLI ge Settings		- un TextFX Plug	ins Window ?	_	_	_	-	
) C			🎫 ¶ 🗐				1 🔊 🍫	-
	ALLLIN	ES.TXT	42.200	7112.1.	.dat	😑 AnIMLTo	olsTest.xml							
Γ	1	33	189.0) 42	1	2100	91	74.9214						^
	2	75	189.8	36	2	7900	25	186.207						
	3	76	189.9	900	2	25000	0 0.8	190.23						
	4	50	189.9	980	2	12000	17	118.71						
	5	14	190.1	.34	1	2300	87	28.085						
	6	83	190.2	241	2	850 2	00 208	.98						
	7	81	190.8	864	2	7800	27	204.383						
	8	25	191.5	510	2	6200	34	54.938						
	9	79	191.8	93	1	3500	57	196.966						
	10	6	193.0	91	1	5900	29	12.011						
	11	33	193.6	596	1	5800	35	74.9214						
	12	78	193.7	00	1	2200	91	195.08						
	13	80	194.2			13000	17	200.59						
	14	51	195.0)39	1	1800	110	121.757						
	15	79	195.1			1900		196.966						
	16	83	195.3	89	1	1500	140	208.98						
	17	34	196.0)26	1	4300	50	78.96						V
<u> </u> <				_	_									>
Nor	mal text f	ile			_	nb char :	27837 L	n:1 Col:1 Se	1:0	Dos\Wi	ndows	ANSI		INS 📑
											S	CIA	ΛAΤ	IC

Parse this in 20 Years



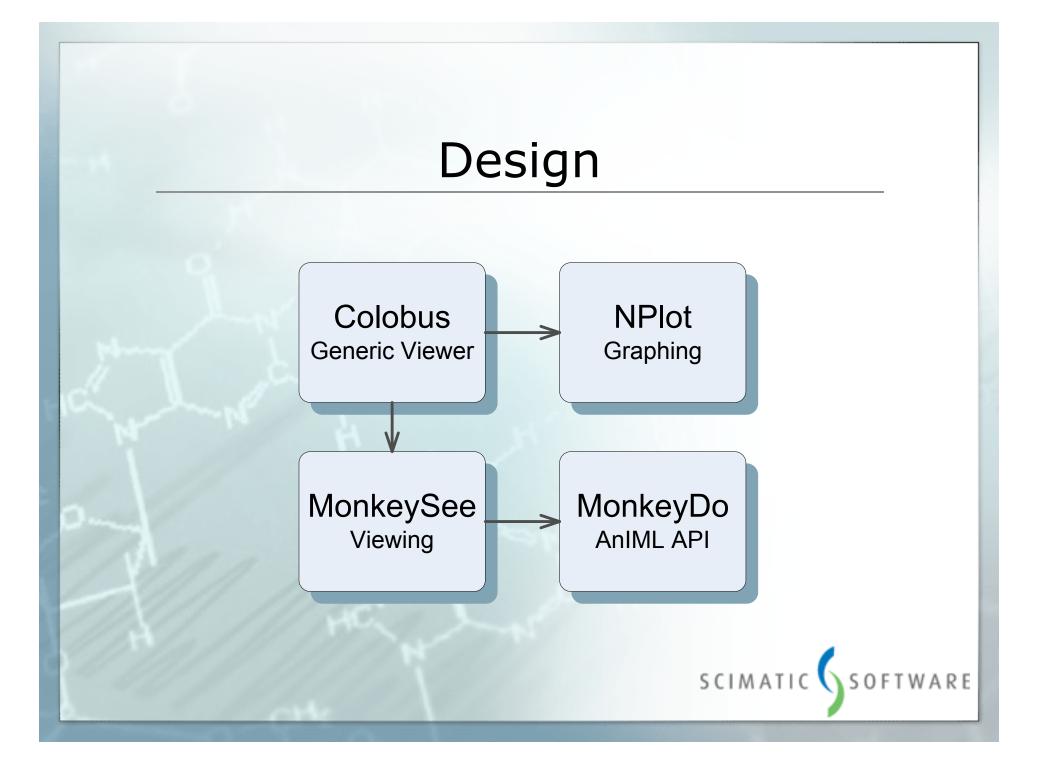
Wait, that looks like data!

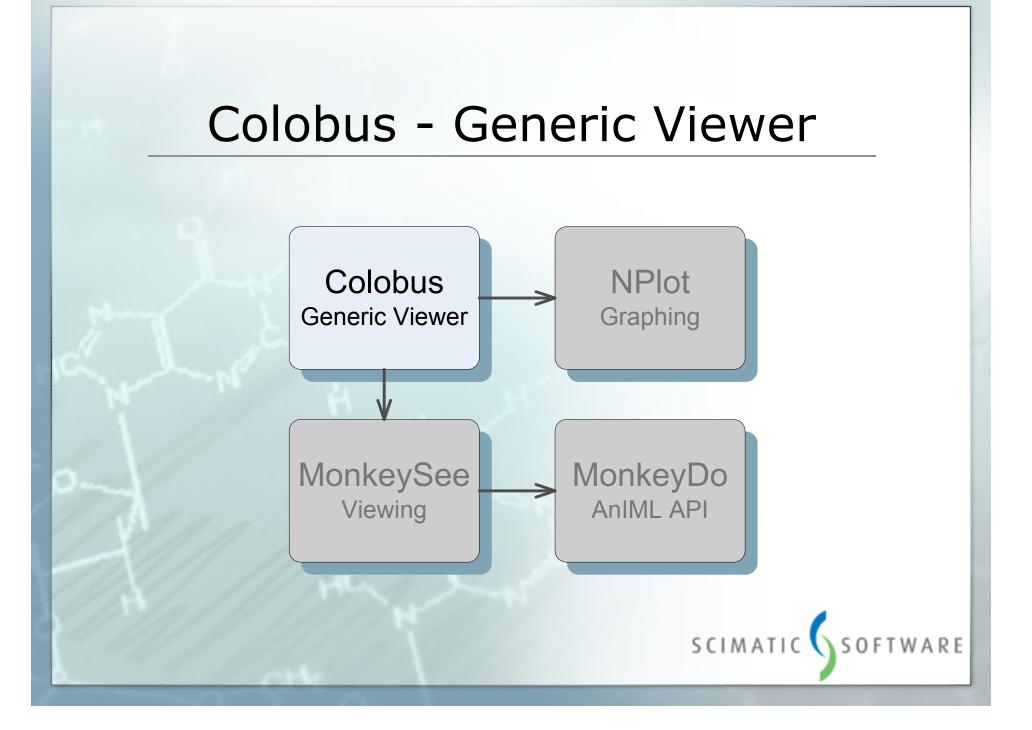


Why Open Source?

- We develop software (we learn by doing)
- We are a solutions company (not a products company)
- Modern day advertising (see what we can do with AnIML)
- Doing our part to promote the AnIML standard

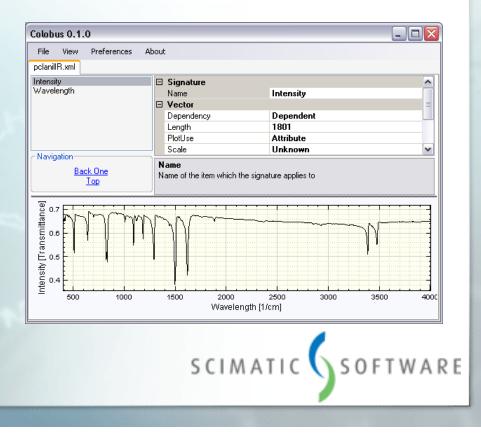


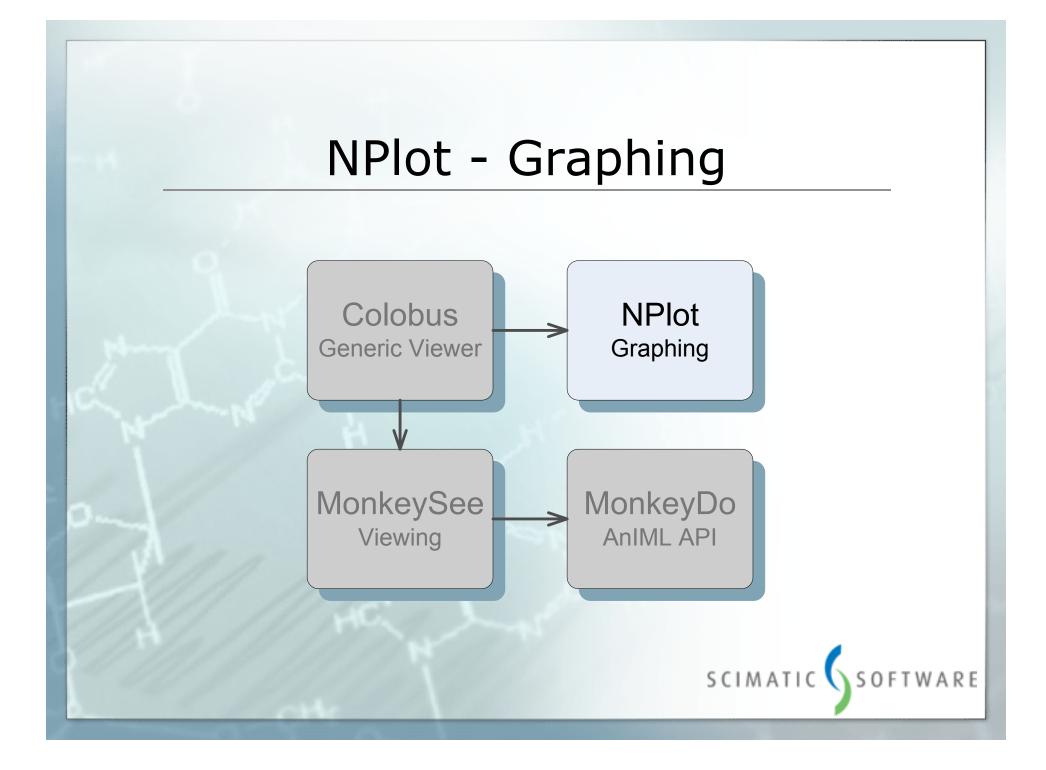




Colobus

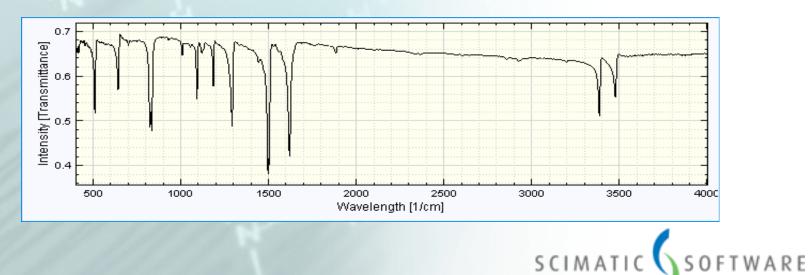
- Generic viewer of AnIML files
- Provides method to view multiple AnIML files
- We use this to test our library

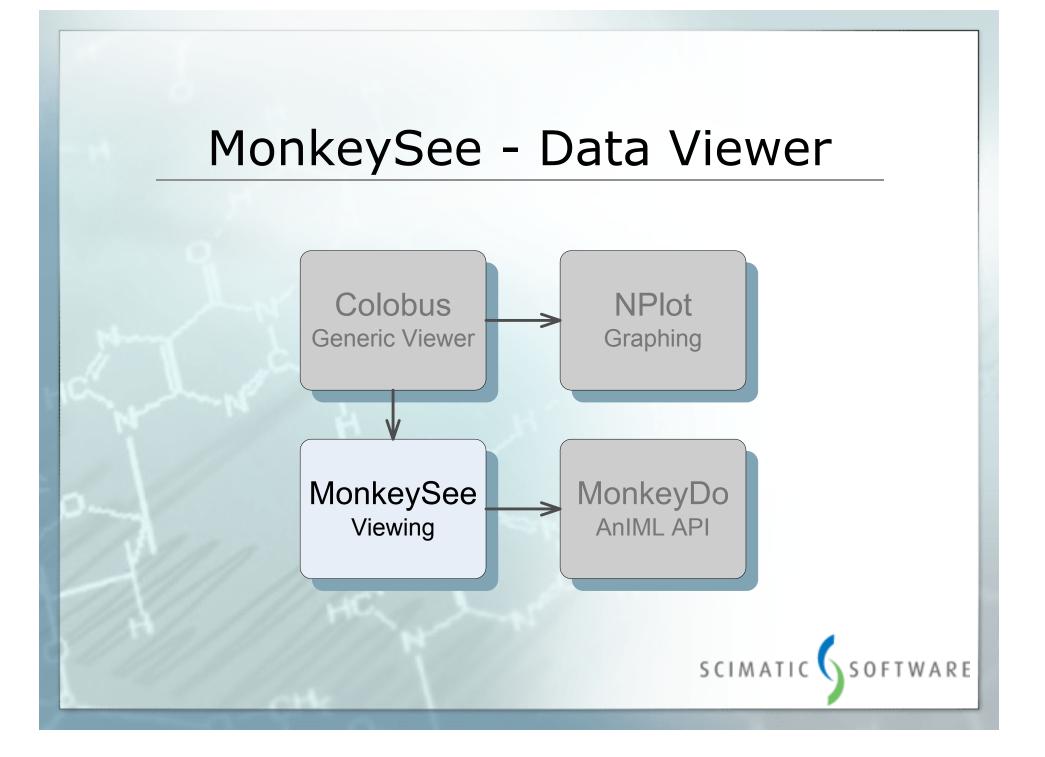




NPlot

- Popular Open source charting library (~1100 downloads/month)
- Why we choose NPlot:
 - We know NPlot (I' m a project administrator)
 - Used in client and in-house projects



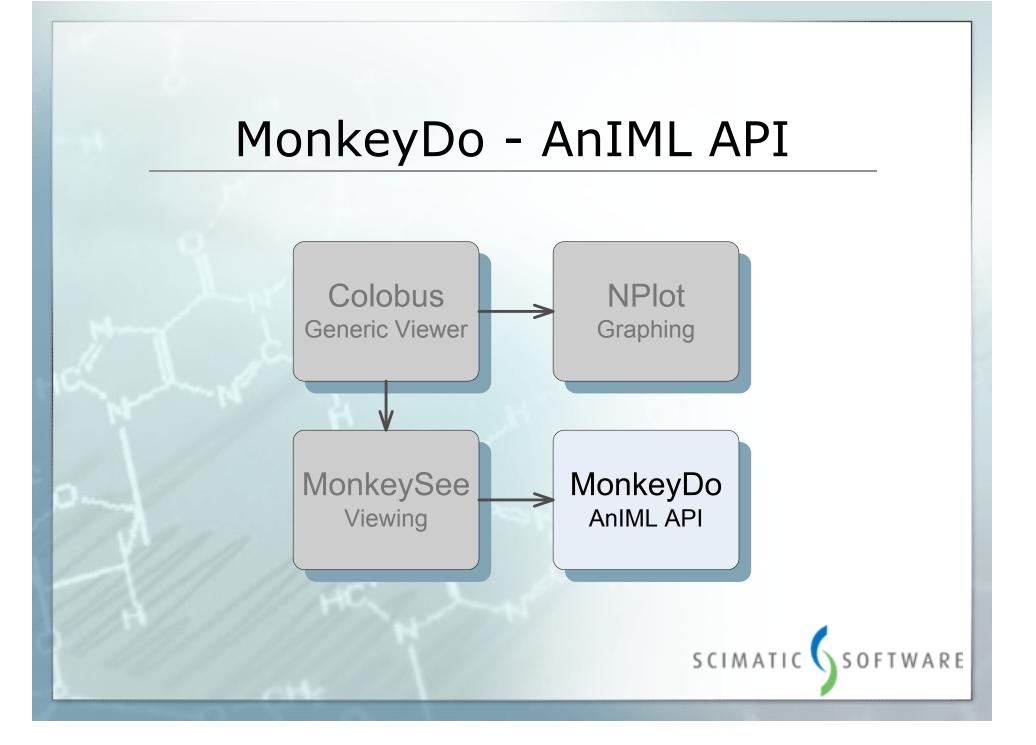


MonkeySee

- Component for viewing the contents of AnIML files
- C# windows component (can be dropped into your Winforms project)

	Intensity
Vector	
Dependency	Dependent
Length	1801
PlotUse	Attribute
Scale	Unknown
Tupe	Float32
	Length PlotUse Scale



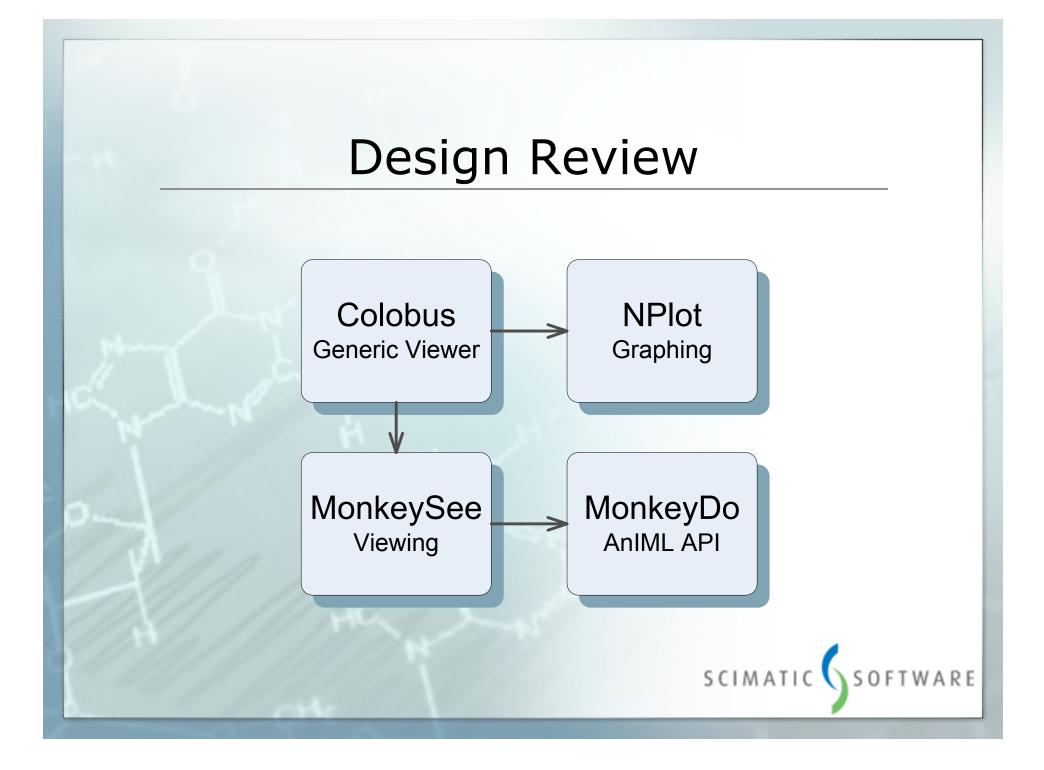


MonkeyDo

- DLL which contains the logic to read (eventually write) AnIML files
- Load AnIML files
- Access samples, Experiments, Audit Trail easily
- No dependencies on any other of the AnIML Tools components







Current Features (0.1.0)

- Supports the loading and parsing of the data specified by the core schema
 - Sample Sets
 - Experiment Step Sets
 - Audit Trail
- AnIML visualization contents of files viewable via MonkeySee
- Graphing data is graphed in the NPlot component
- Exporting Data can be easily moved to another application (i.e. Excel)



Development Roadmap

First Release (1.0)

- Support for technique schemas
- Validation Integrate NIST validation work (Java)

Next Version (2.0)

- Update the MonkeyDo component to allow the writing of AnIML files
 - Timestamps
 - Digital signatures

Future Plans

Embeddable version of the MonkeyDo component (moving AnIML into the instrument)



Getting Involved

AnIML

Domain experts for analytical techniques (NMR, Mass spec)

AnIML Tools

- Software developers C# knowledge with time to donate?
- Feedback Is this software useful for your company?



Links

AnIML Project	animl.sourceforge.net
AnIML Tools	www.animltools.com
NPlot	www.nplot.com
JSpecView	jspecview.sourceforge.net
Scimatic Software	www.scimatic.com

Jamie McQuay

jamie@scimatic.com

