

The Donut of  
Equivalence



A Recurrent  
Pattern

# A Consumer's View of Unbundling



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Three  
Short  
Cases  
(of donuts)

The Original  
Donut of  
Equivalence



Extreme  
Engineering

# The Donut of Equivalence

Aggregate XML Data Tables

STANDARD NUMBER	NOMINAL THREAD SIZE UNF-3A	A		B		C	
		± .005	± .003	± .005	± .003	MAX	MIN
3	1.000-32	364	296	296	277		
4	2.000-28	470	312	312	347		
5	3.150-24	586	375	375	418		
6	4.750-20	644	437	437	490		
7	6.750-18	745	500	500	561		
8	9.000-16	823	562	562	637		
9	12.000-14	933	625	625	724		
10	16.000-12	1045	687	717	775		
12	20.000-11	1225	812	846	917		
14	25.000-10	1433	937	1000	1059		
16	30.000-9	1625	1062	1125	1200		
18	36.000-8	1875	1250	1350	1454		
20	42.000-7	2125	1412	1512	1644		
22	48.000-6	2350	1525	1625	1862		
24	54.000-5	2565	1750	1850	2186		



Part Suppliers

STANDARD NUMBER	NOMINAL THREAD SIZE UNF-3A	A		B		C	
		± .005	± .003	± .005	± .003	MAX	MIN
3	1.000-32	364	296	296	277		
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24	54.000-5	2565	1750	1850	2186		



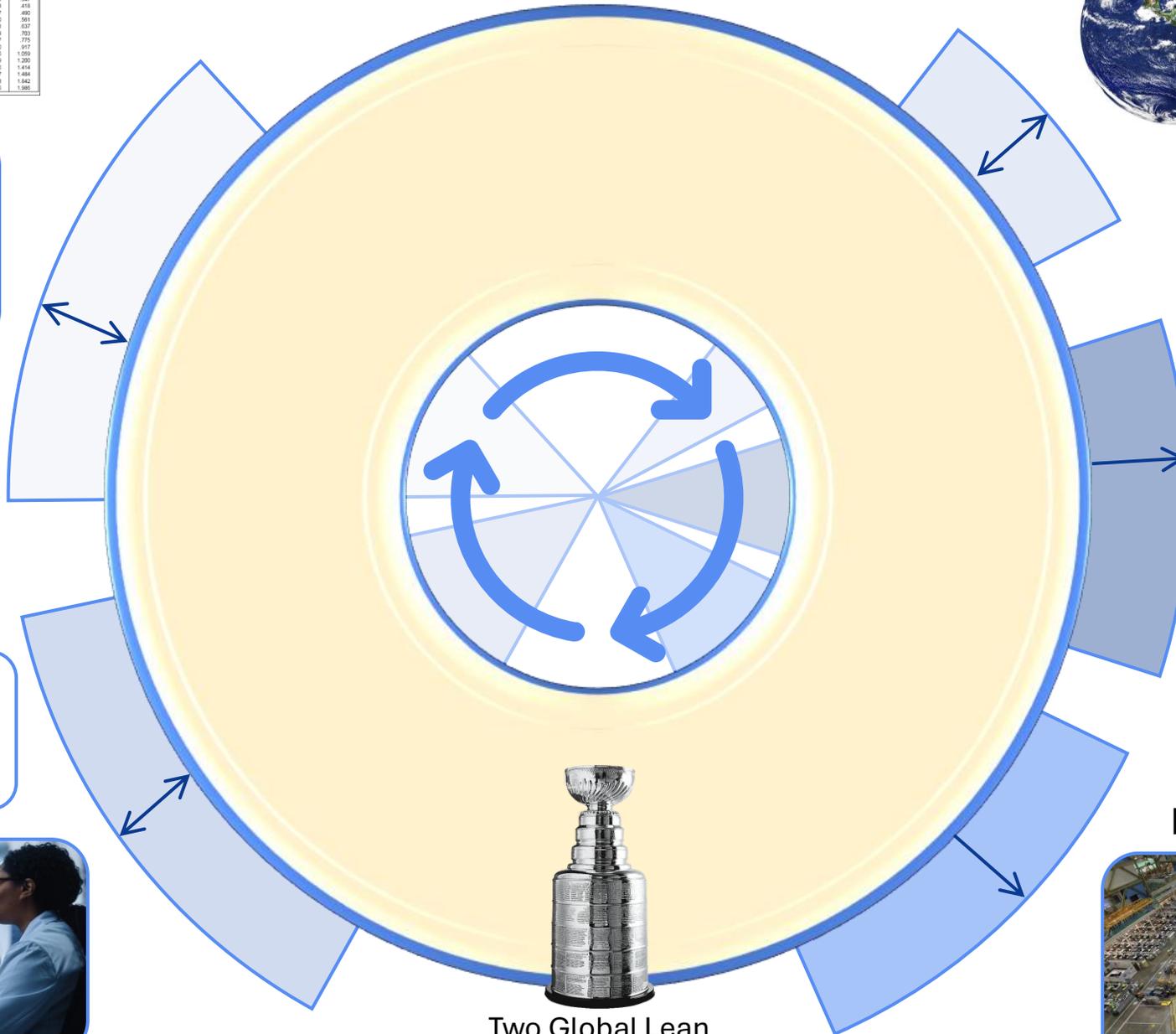
Dozens of different XML representations

Part-type specific XML Editing



Formatted XML Tables

STANDARD NUMBER	NOMINAL THREAD SIZE UNF-3A	A		B		C	
		± .005	± .003	± .005	± .003	MAX	MIN
3	1.000-32	364	296	296	277		
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On Demand Part Production

Assembly Management



Two Global Lean Manufacturing Awards





Enabling the  
flow of  
information

Continuous  
transformation  
& validation

“This was  
hard”

“That’s nice.  
We thought  
it was  
*impossible*”

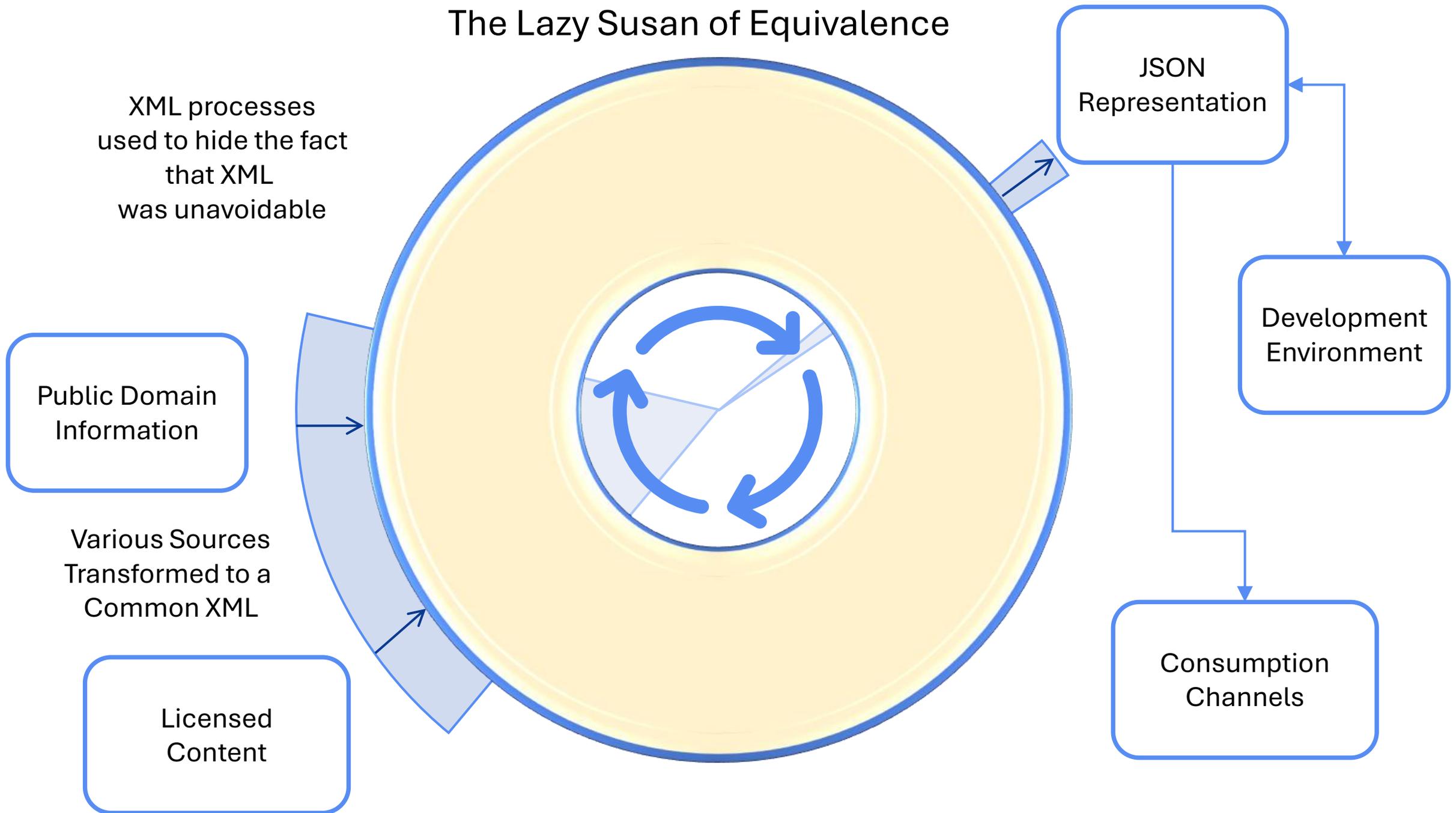
Silicon Valley  
Start-up



“We hate  
XML”

“That’s  
only fair”

# The Lazy Susan of Equivalence



XML  
*(intentionally)*  
kept on the  
outside



Knowledge  
of XML  
& XML tools  
was not  
welcome

Digital  
Humanities



XML to  
the rescue

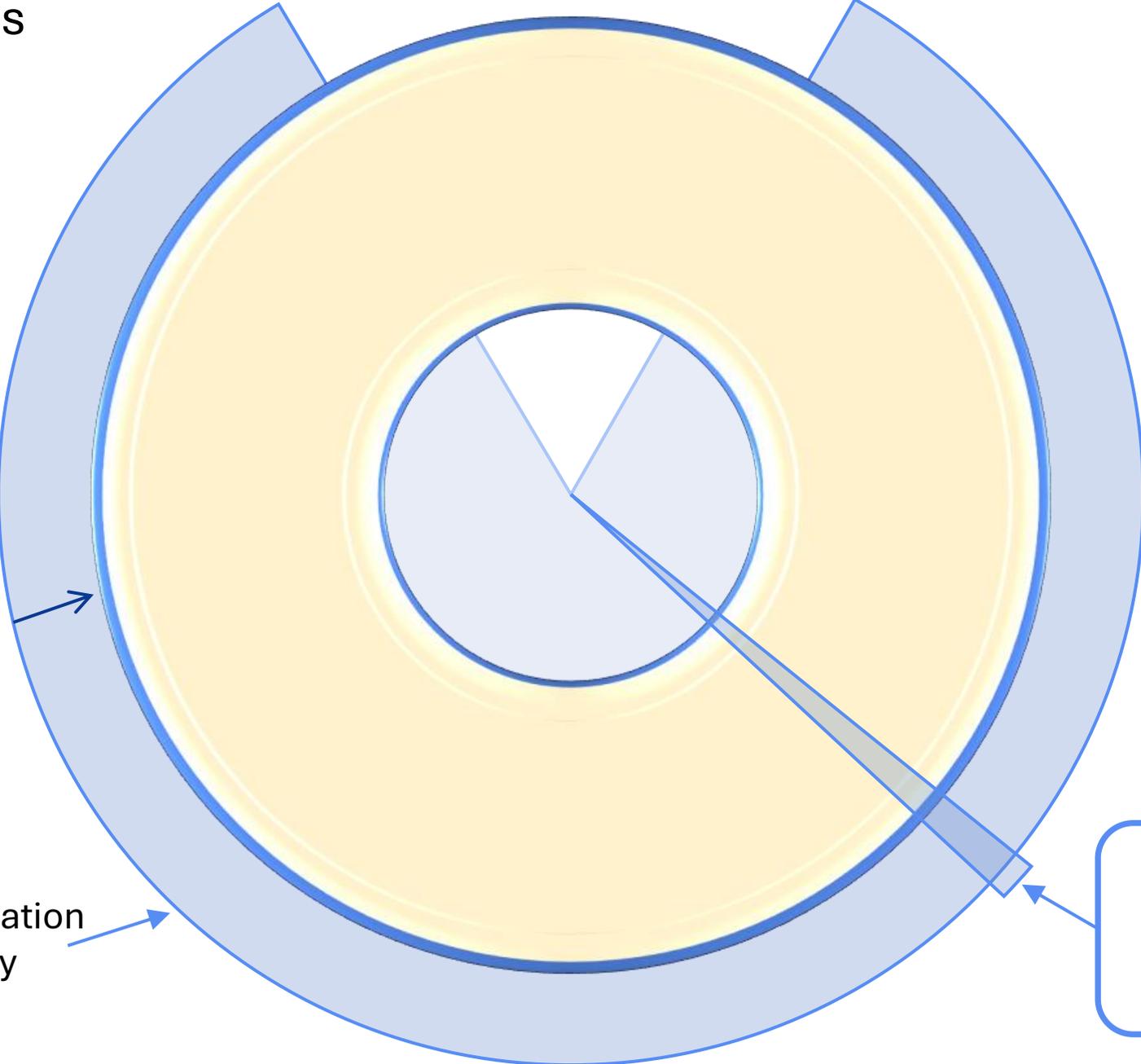
# The Reference Desk of Equivalence

## Digital Miscellanies Index

“Extended”  
Data  
Created by  
Earnest Grad  
Students



KAML  
*Kings Arms  
Markup Language*



XML solution  
replaced with  
revamped database  
solution / Web UI

Emergency Implementation  
XML | XSLT | XQuery

Lingering  
XML Import  
Channel for  
New Sources

XML used to  
rapidly realize  
an operational  
solution



Allowed  
project to  
understand  
the data &  
requirements

As solutions  
grow in scale,  
the role of XML  
shrinks  
- becoming  
more selective  
& specific



*Counter-  
intuitively*, as  
its role shrinks,  
the potential  
value of XML  
*increases*

Value lies in finding ways to fit in