



I. The Enthusiastic Developer

"This stuff is cool let's build programs! For real people!"

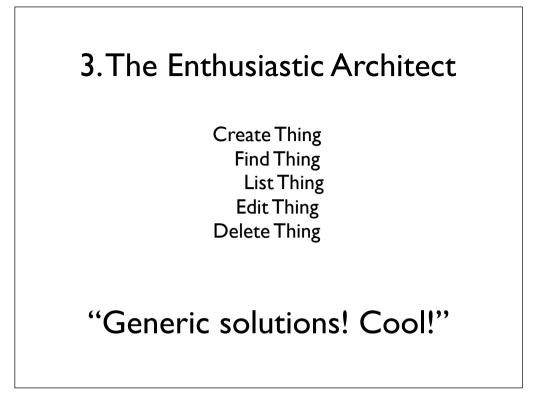
Create Customer	Create Product	Create Order
Find Customer	Find Product	Find Order
List Customers	List Products	List Orders
Edit Customer	Edit Product	Edit Order
Delete Customer	Delete Product	Delete Order
Boring, boring, boring.		

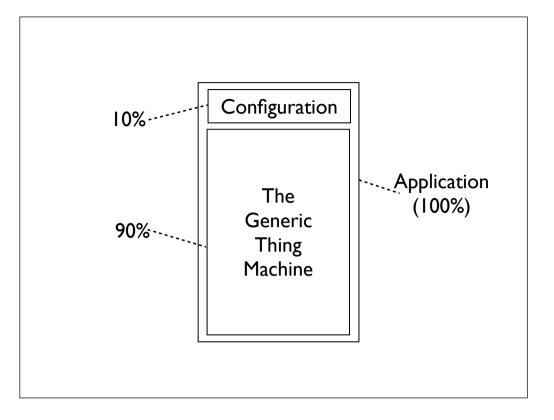
2. The Disillusioned Developer

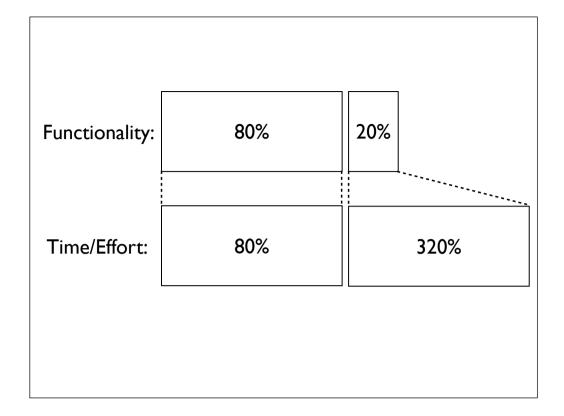
"Oh. Real people have boring problems."

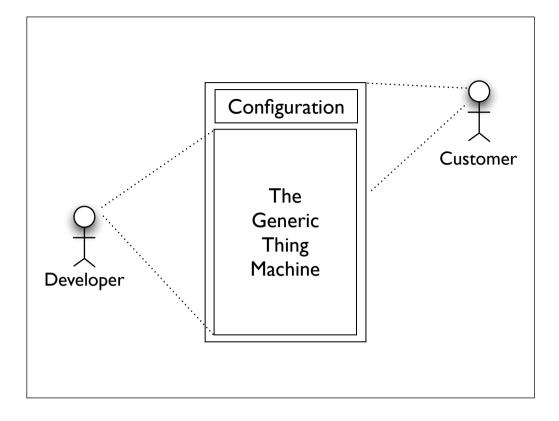
Create Customer	Create Product	Create Order
Find Customer	Find Product	Find Order
List Customers	List Products	List Orders
Edit Customer	Edit Product	Edit Order
Delete Customer	Delete Product	Delete Order

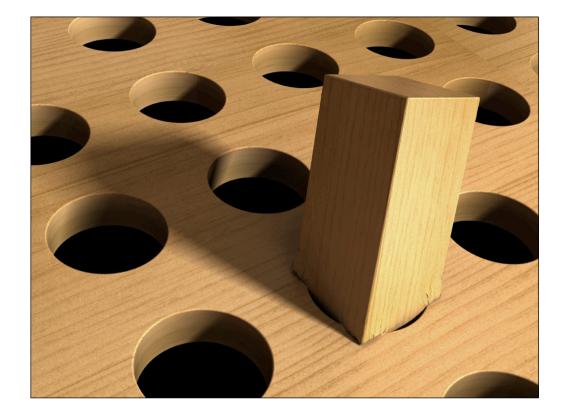
Create Thing Find Thing List Thing Edit Thing Delete Thing

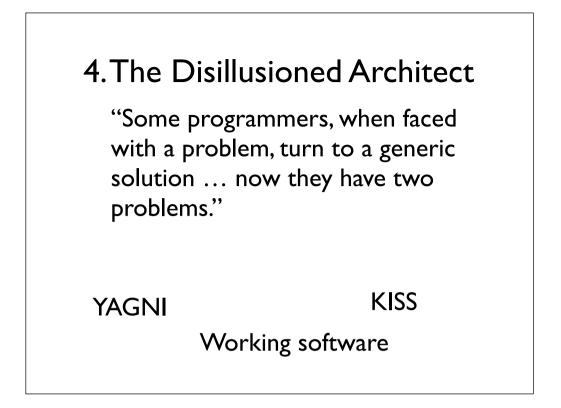




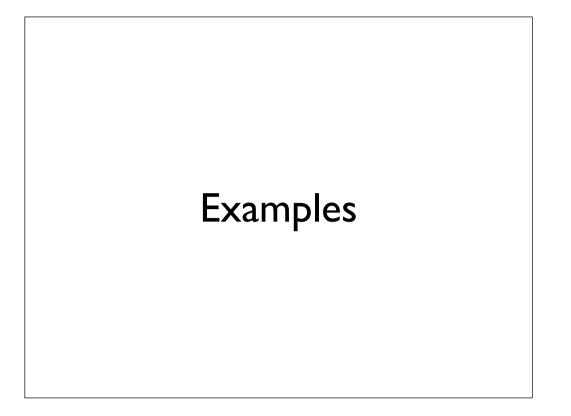


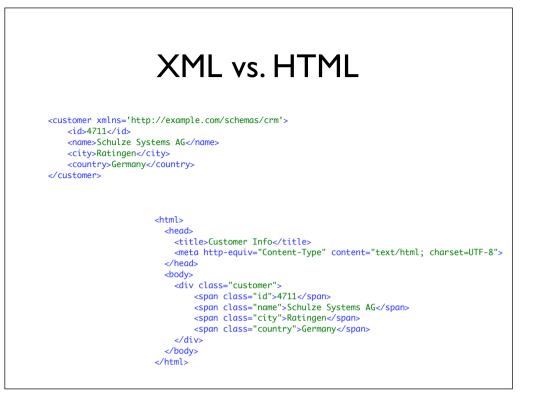


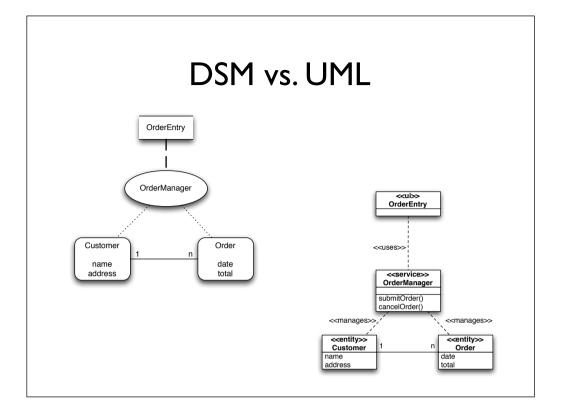




5.The "Wise" Architect Question: * Answer: It depends.







External vs. Internal DSL

cancel:

transitions from submitted to cancelled,

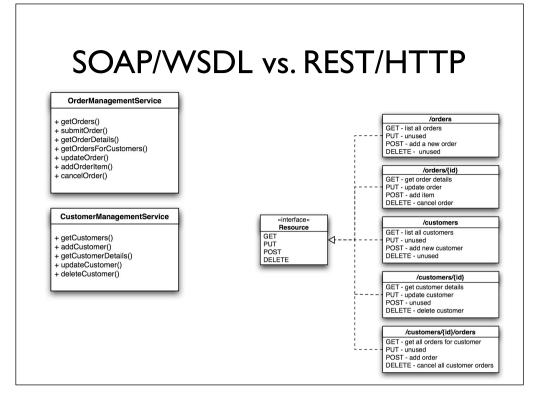
accept:

transitions from received to accepted, from checking to checked

event :cancel do
 transitions :from => :submitted, :to => :cancelled
end

event :accept do transitions :from => :received, :to => :accepted

transitions :from => :checking, :to => :checked
end



HTTP Verbs vs. POST Tunneling

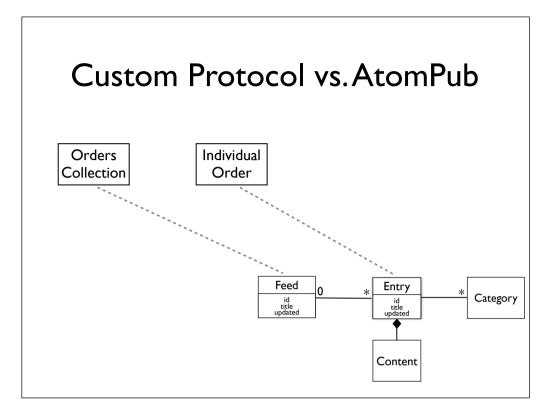
PUT /xyz HTTP/1.1 <data>...</data> POST /xyz HTTP/1.1
<update><data>...</data></update>

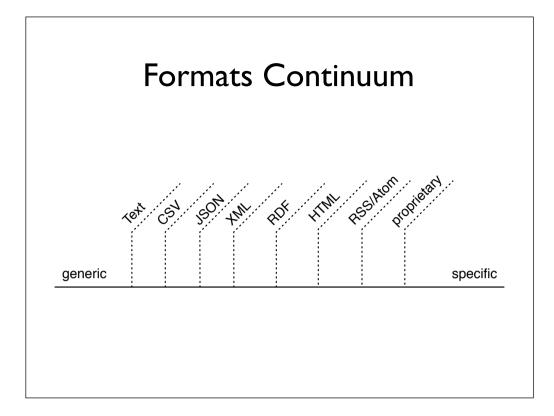
DELETE /xyz HTTP/1.1

PATCH /xyz HTTP/1.1 <diff>...</diff> POST /xyz HTTP/1.1

POST /xyz HTTP/1.1
<delete>...</delete>

<diff>...</diff>





RDBMS Tables vs. Metatables

<u>Customer</u>

id	name	address	status

Order

id	date	amount	total	cust_id

<u>Class</u>	
id	name
I	Customer
2	Order

<u>Attribute</u>

id	name	type	class_id
1	cust_no	int	I
2			

The List Goes on and on ...

Smalltalk Image vs. Filebased IDEs

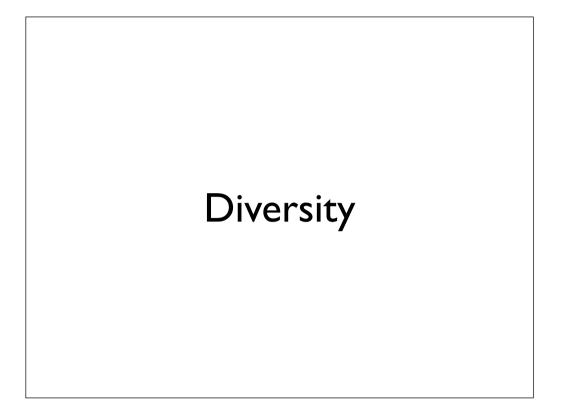
Custom-built Web App vs. CMS

Custom Protocols vs. Standards

Maven vs. Ant (vs. scripts)

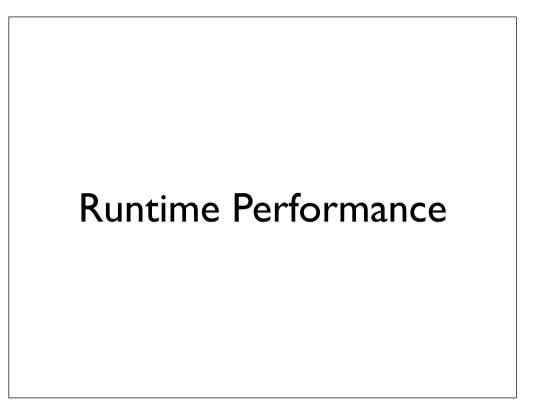




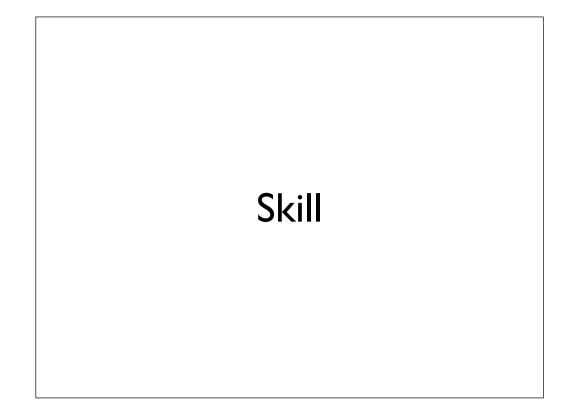
















XML

- I. View it in tree rendering
- 2. Check for wellformedness
- 3. Run XSLT on it
- 4. Query with XPath
- 5. Process with XQuery

- 6. Validate against schema
- 7. Encrypt/Decrypt parts
- 8. Sign and verify signature
- 9. Archive it
- 10.Process w/ SAX/DOM

HTTP & URIs

- I. Embed links in representations
- 2. Drive application flow
- 3. Expose Multiple Representations
- 4. Use curl/wget
- 5. Control access

- 6. Get indexed by Google (public or appliance)
- 7. Bookmark or email Links
- 8. Redirect
- 9. Use 404, 412, 409
- 10. Use Caches

SOAP/WSDL/WS-*

- I. ESBs 6. Mainstream choice
 - 7. People

- 2. Platforms
- 3. Tooling
- 4. Intermediaries
- 5. Standard software
- 8. Politics **9**. Hype
- 10. Job security

RDBMS

- I. <u>S</u>tandard <u>Q</u>uery <u>L</u>anguage
- 2. Optimized access
- 3. Parallel processing
- 4. Scalability & Performance
- 5. Metadata management

- 6. Report generators & BI Tools
- 7. Hot backup
- 8. Portability
- 9. Program-independent storage
- 10.Caching

Files

- I. Search 7. Import/Export
- 2. Backup
- 3. Debug
- 4. Diff
- 5. Edit
- 6. Version control

- 8. Convert
- 9. Generate
- 10. Process

UML

Concepts

Diagram types

CASE Tools

DSM

Eclipse EMF MS SW Factories



Generic

Useful ecosystem

"Obvious" match

Existing skills

Static environment

Specific

Niche needs

"Unique" problem

Performance

Soft environment

