



# Conversations: 2 Grand Pianos on a Stage

R. David Lankes

<http://www.DavidLankes.org>







How Students Learning Math  
in 1960's England Leads to  
Two Grand Pianos in a Public  
Library



How the North Winning the  
US Civil War lead to the  
Modern Computer





E456-655 Civil War period, 1861-1865



E456-655 Civil War period, 1861-1865

UF400-405 Field artillery



E456-655 Civil War period, 1861-1865

UF400-405 Field artillery

QA801-939 Analytic mechanics



E456-655 Civil War period, 1861-1865

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E745 Military history



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QA75.5-76.95 Electronic computers.  
Computer science



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TK452-454.4 Electric apparatus and  
materials. Electric circuits. Electric  
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E745 Military history

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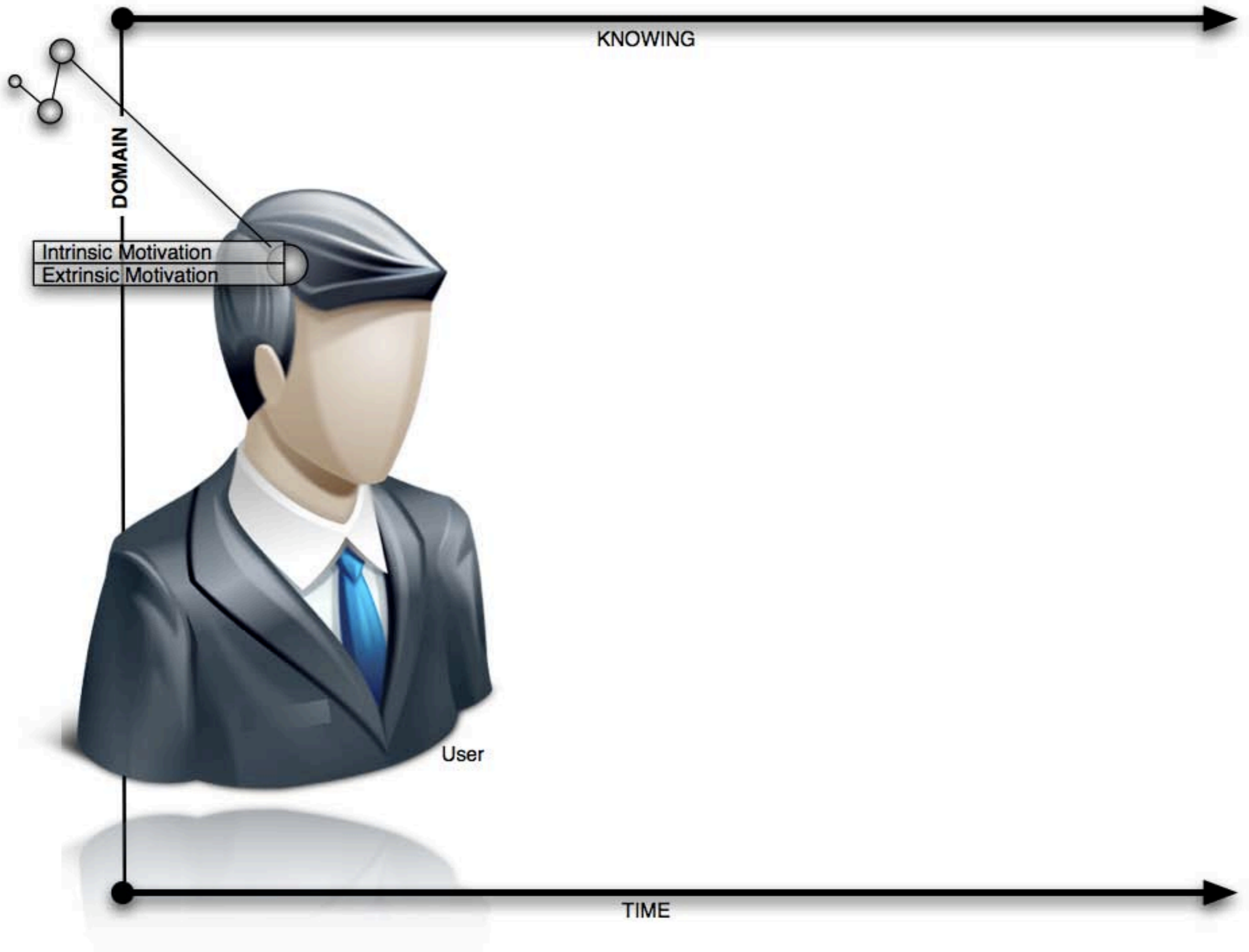


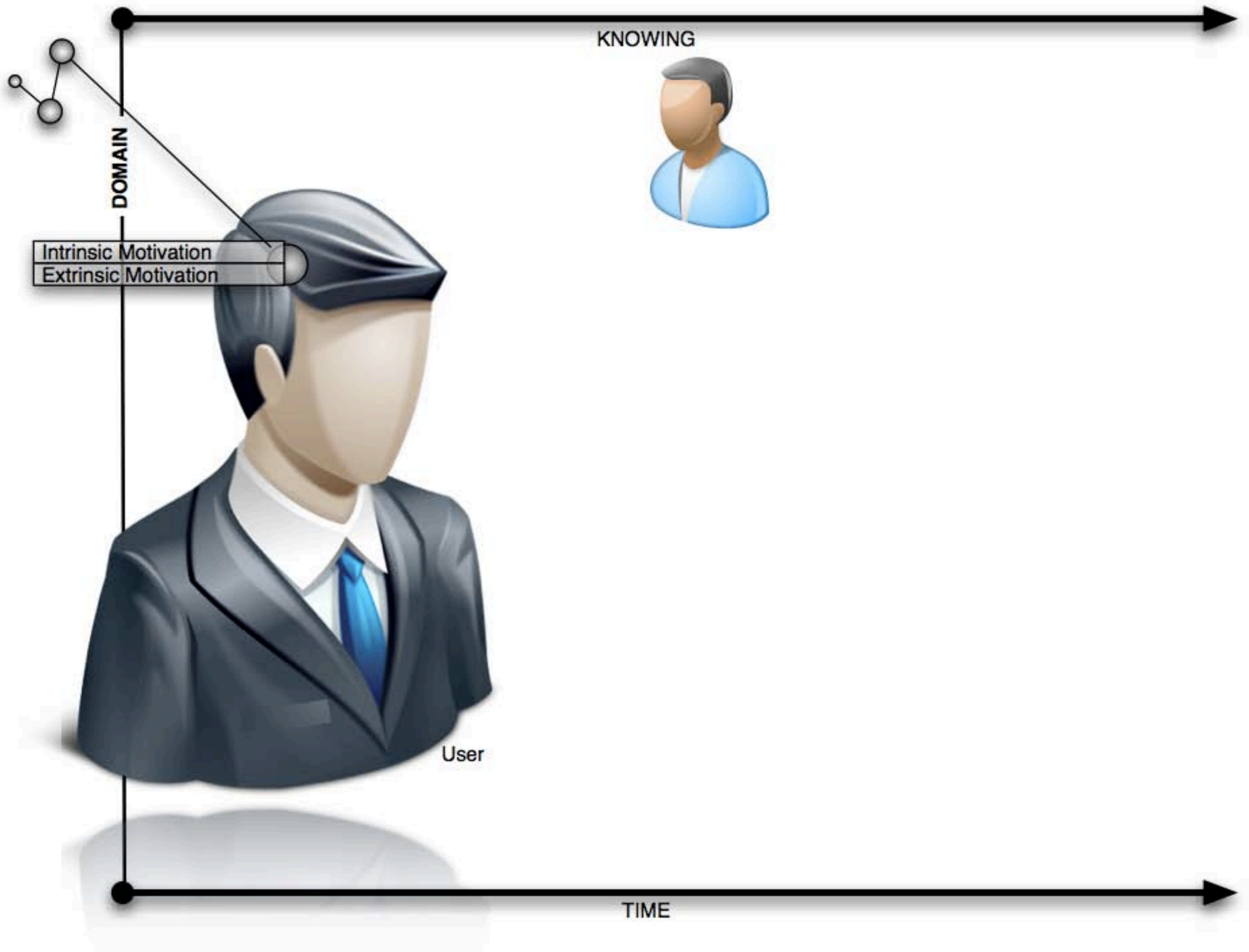


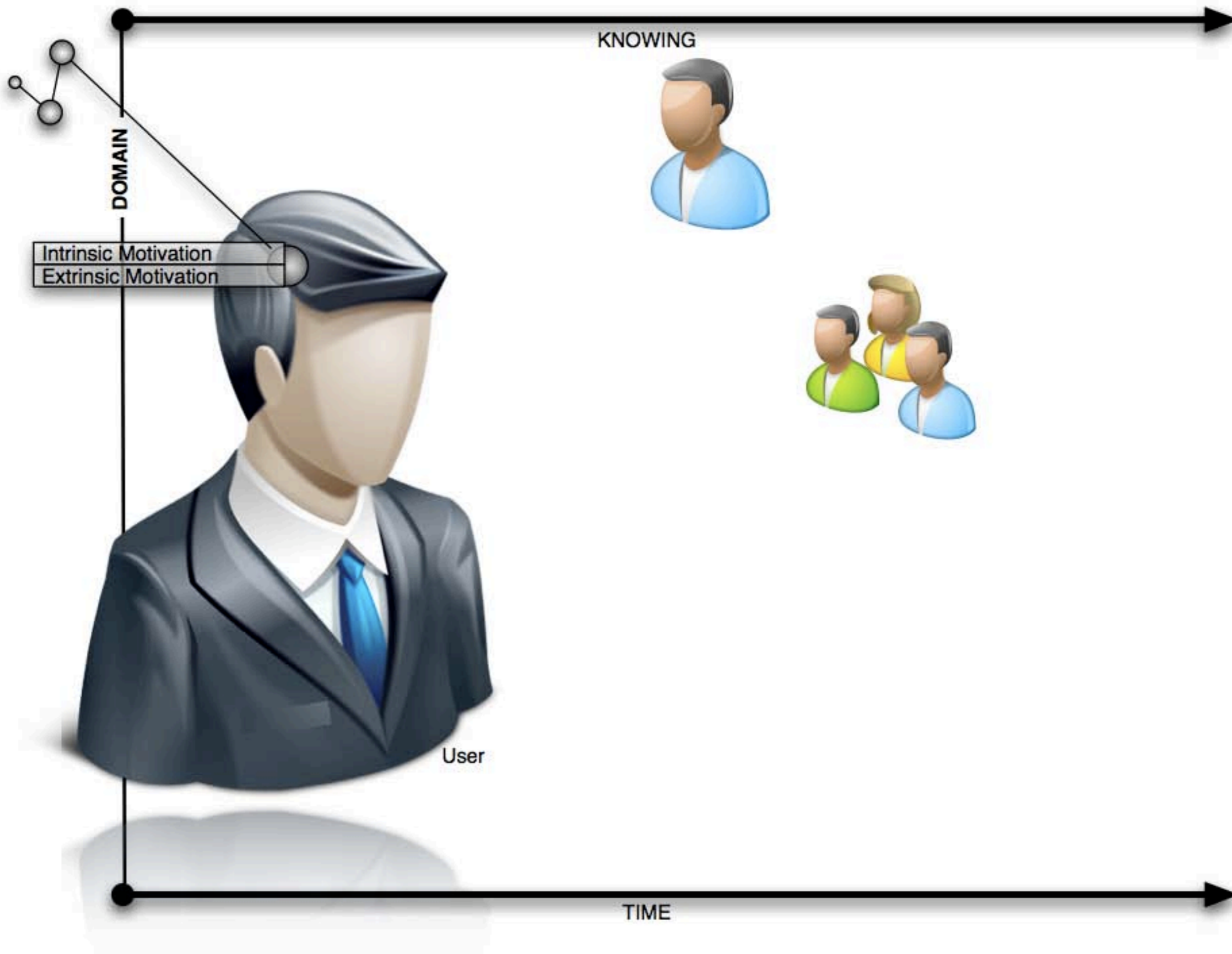
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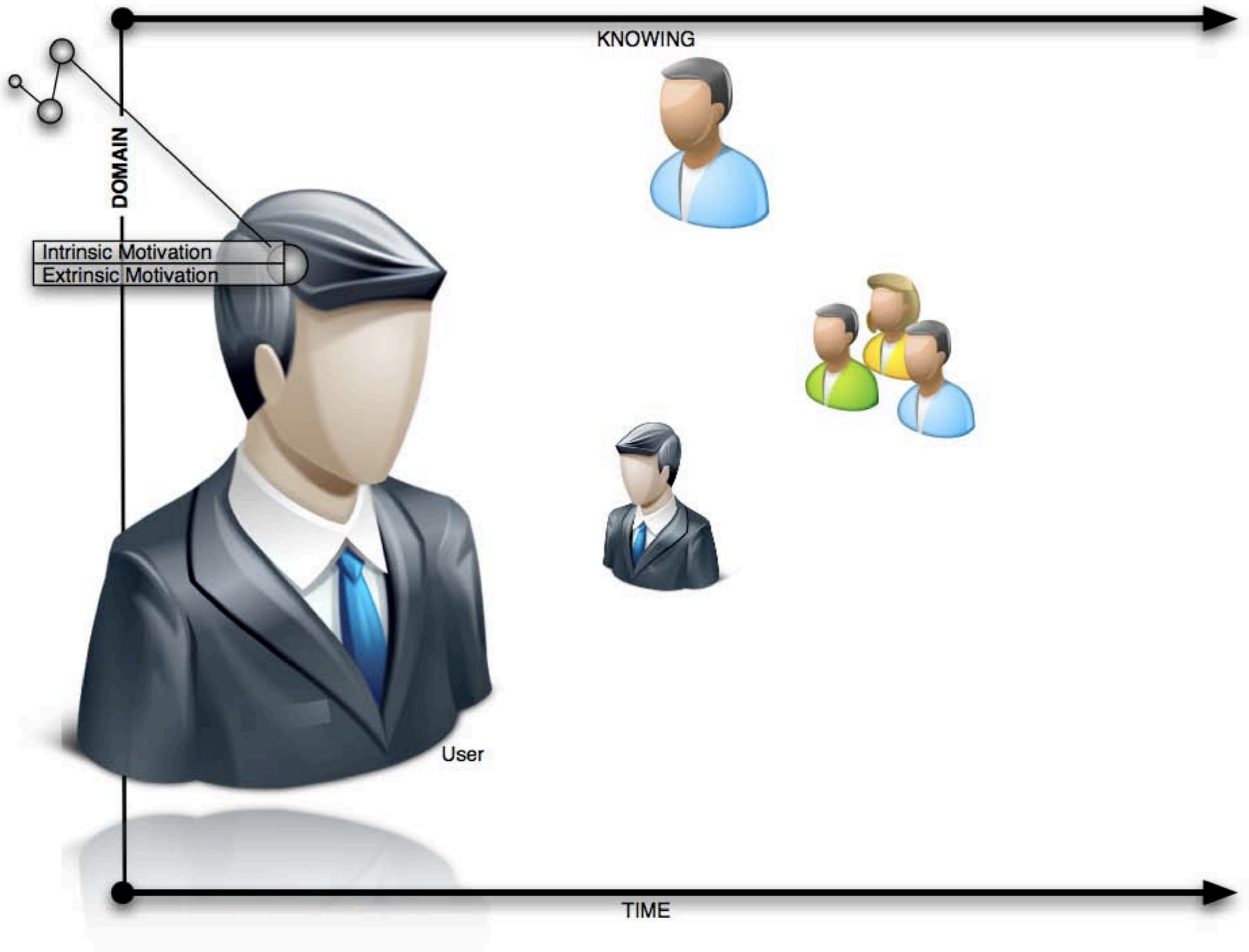


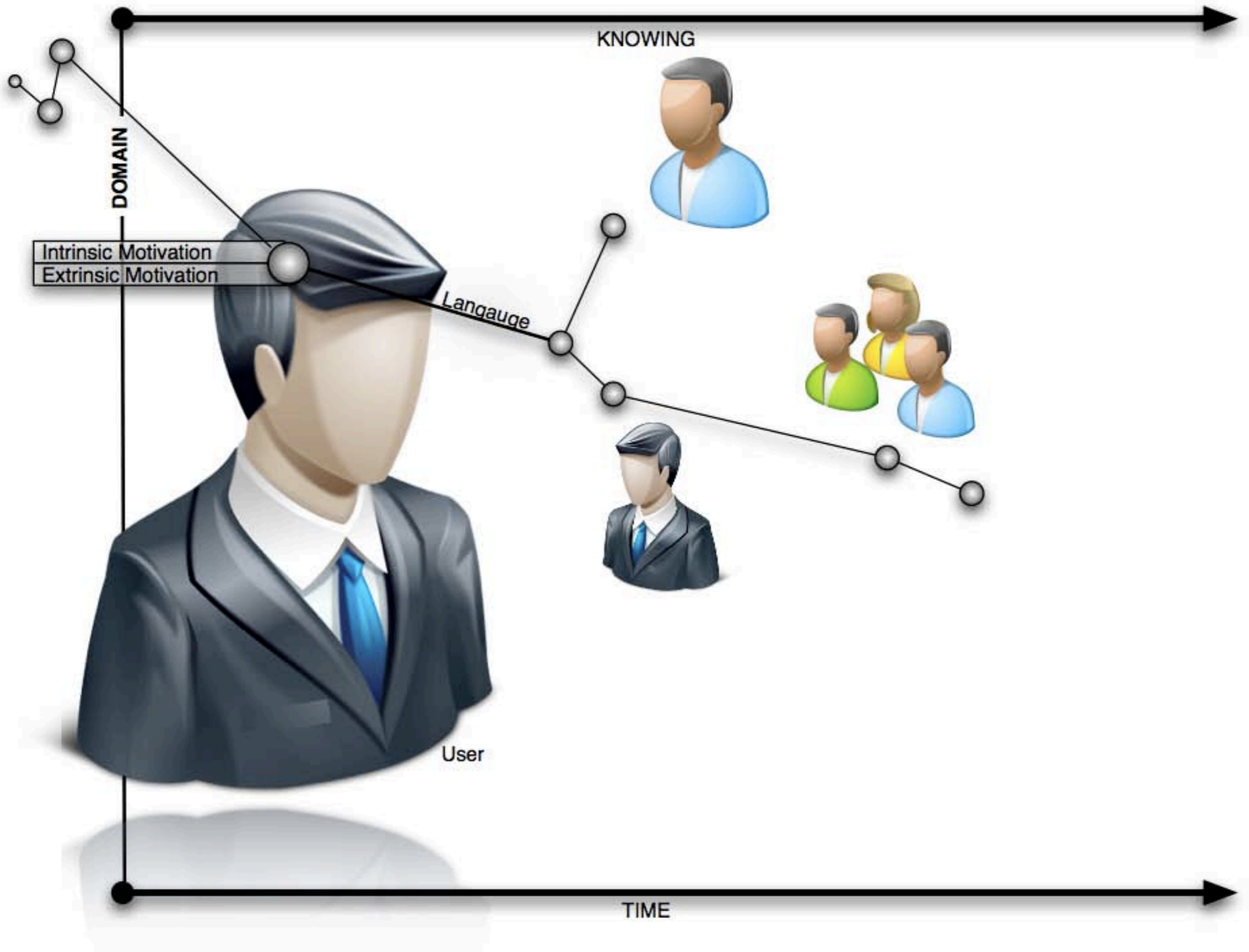
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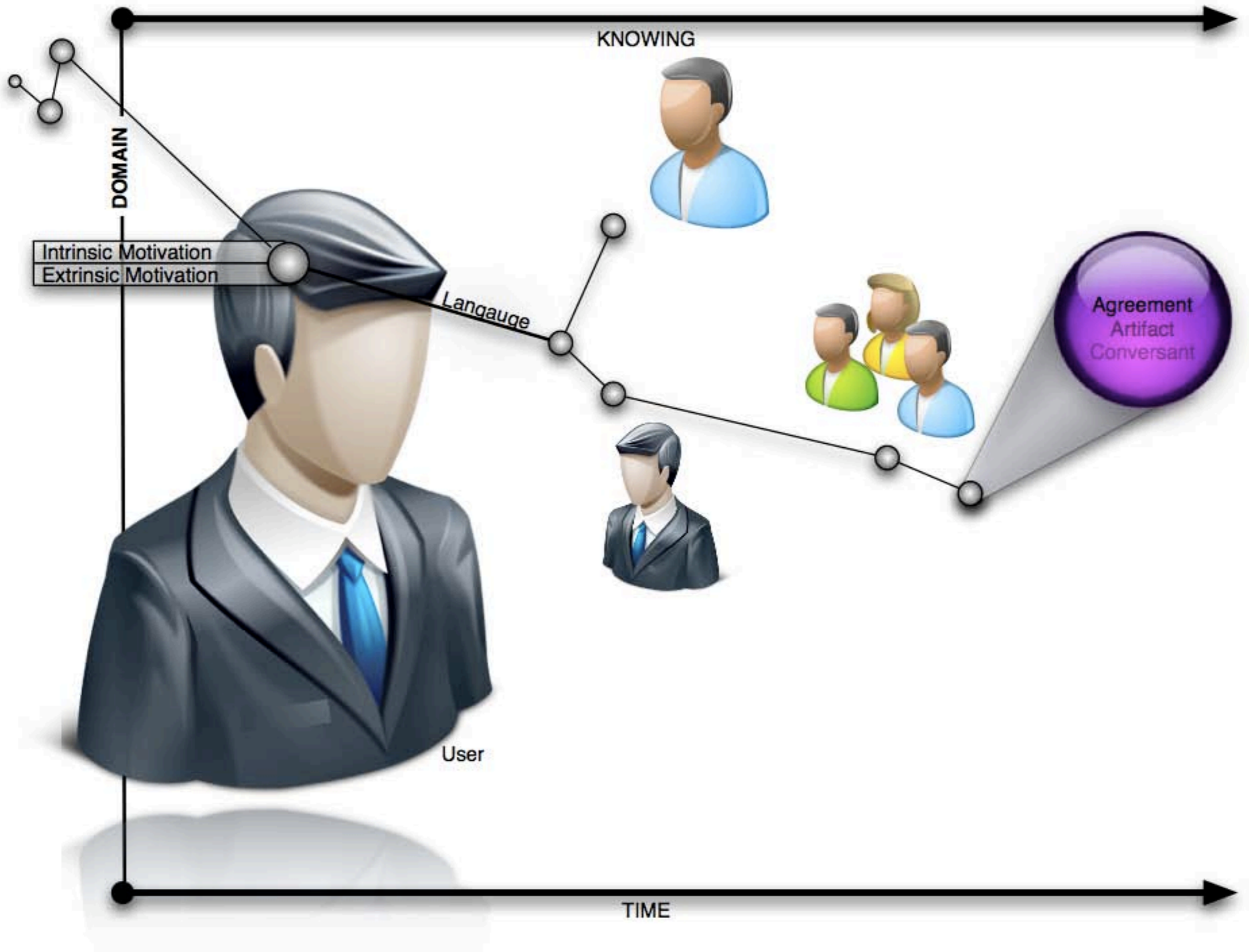


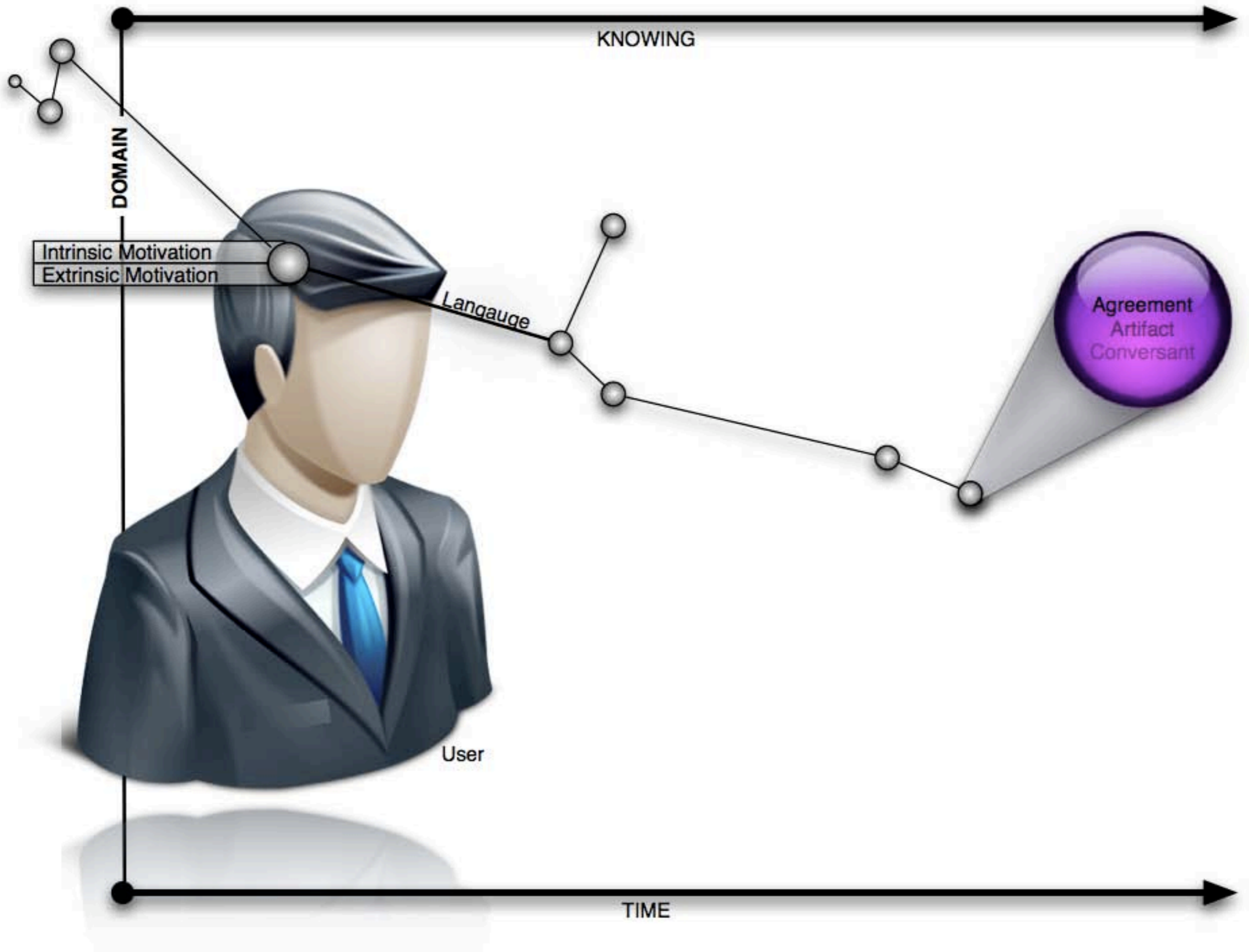












# Formula

# Formula

- Chemical Combination

# Formula

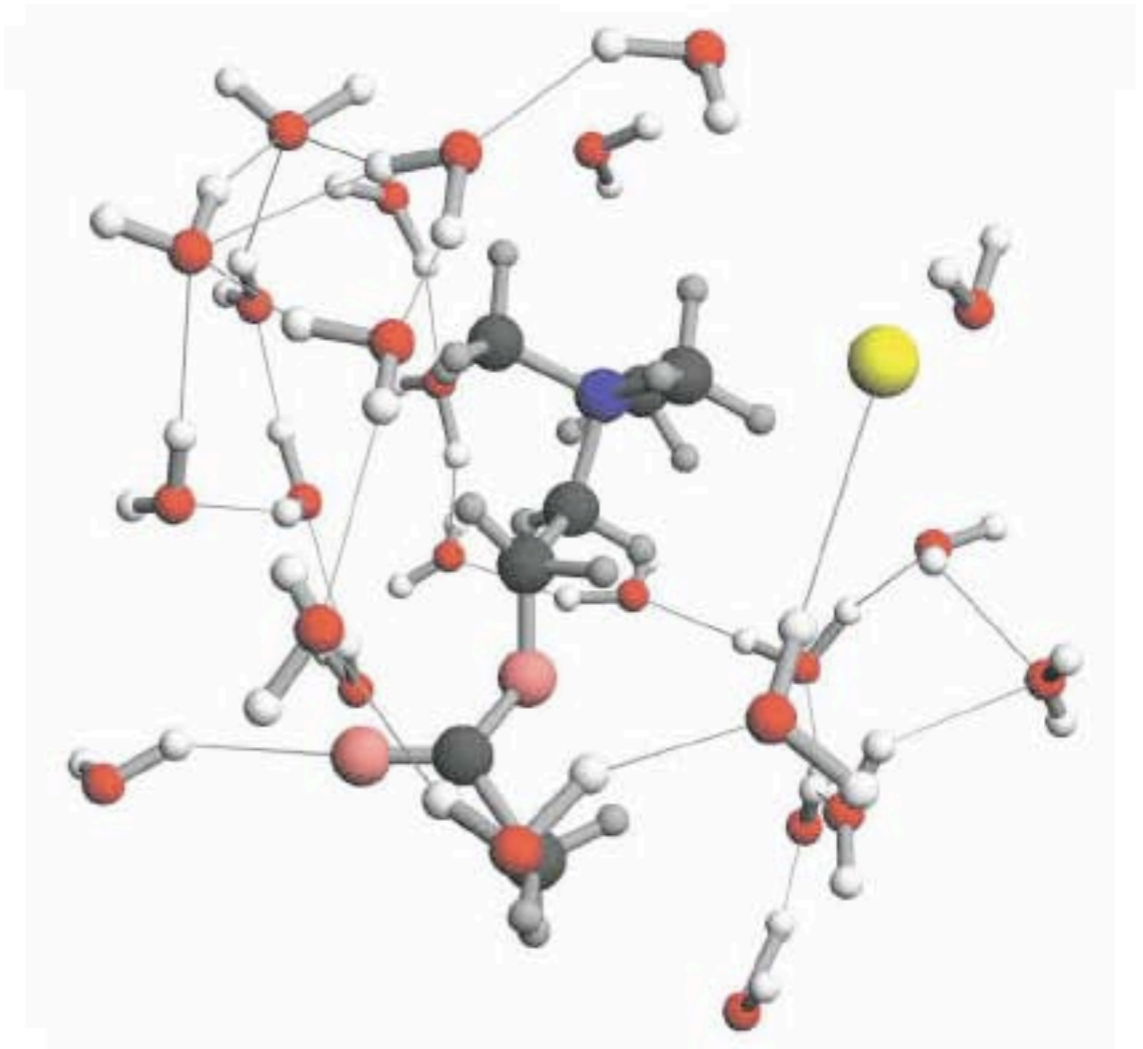
- Chemical Combination
- Mathematical Expression

# Formula

- Chemical Combination
- Mathematical Expression
- Baby Food

# Formula

- Chemical Combination
- Mathematical Expression
- Baby Food



# Light

# Light

- Illumination

# Light

- Illumination
- Set Afire

# Light

- Illumination
- Set Afire
- Not Heavy

# Light

- Illumination
- Set Afire
- Not Heavy



OMG

# OMG

- Object Management Group

# OMG

- Object Management Group
- Omnicom Media Group

# OMG

- Object Management Group
- Omnicom Media Group
- Oh My God!

# OMG

- Object Management Group
- Omnicom Media Group
- Oh My God!



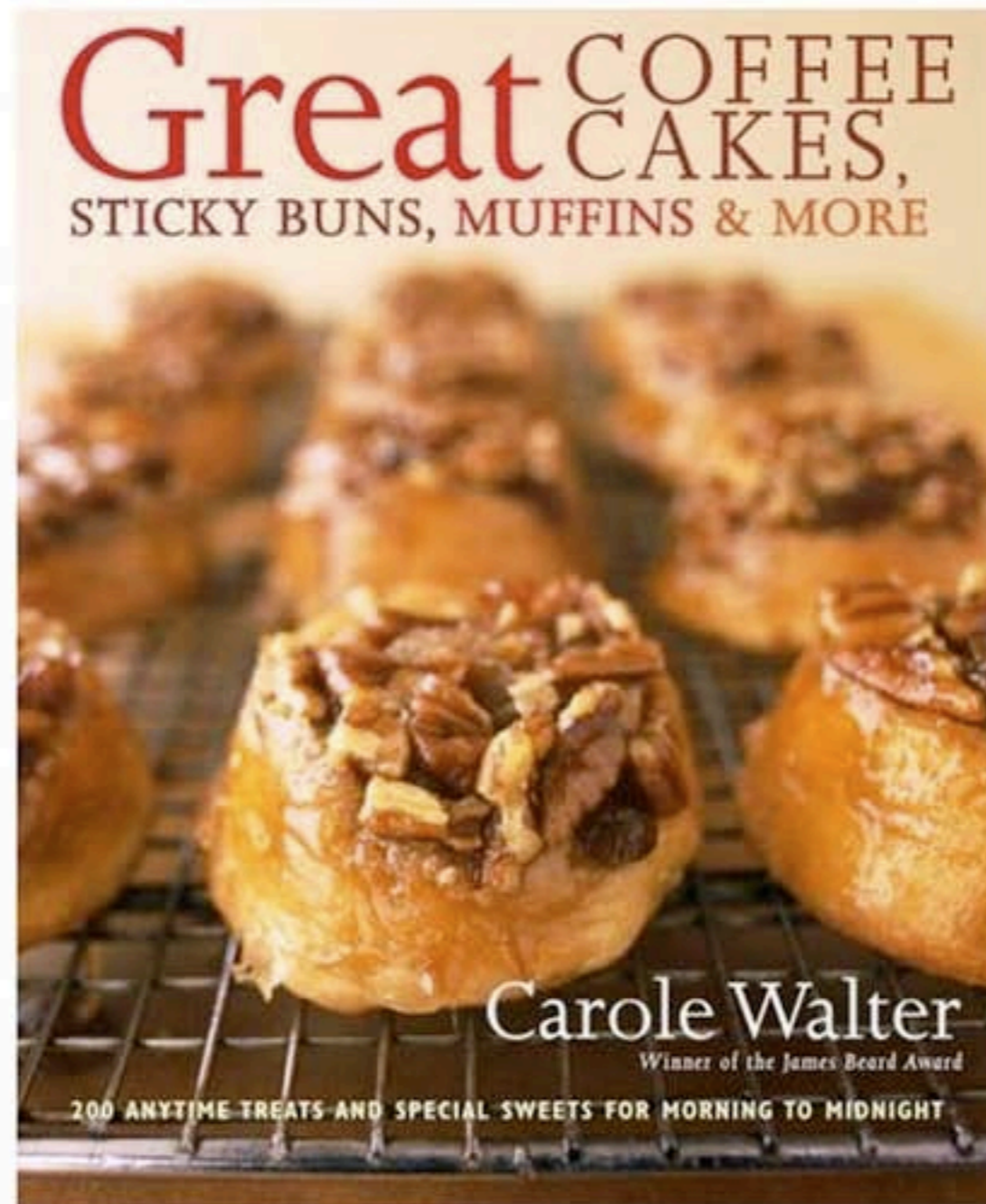
**Formula+Light+OMG**

# Formula+Light+OMG



# Buns+Books

# Buns+Books



# Women+Comfortable Shoes

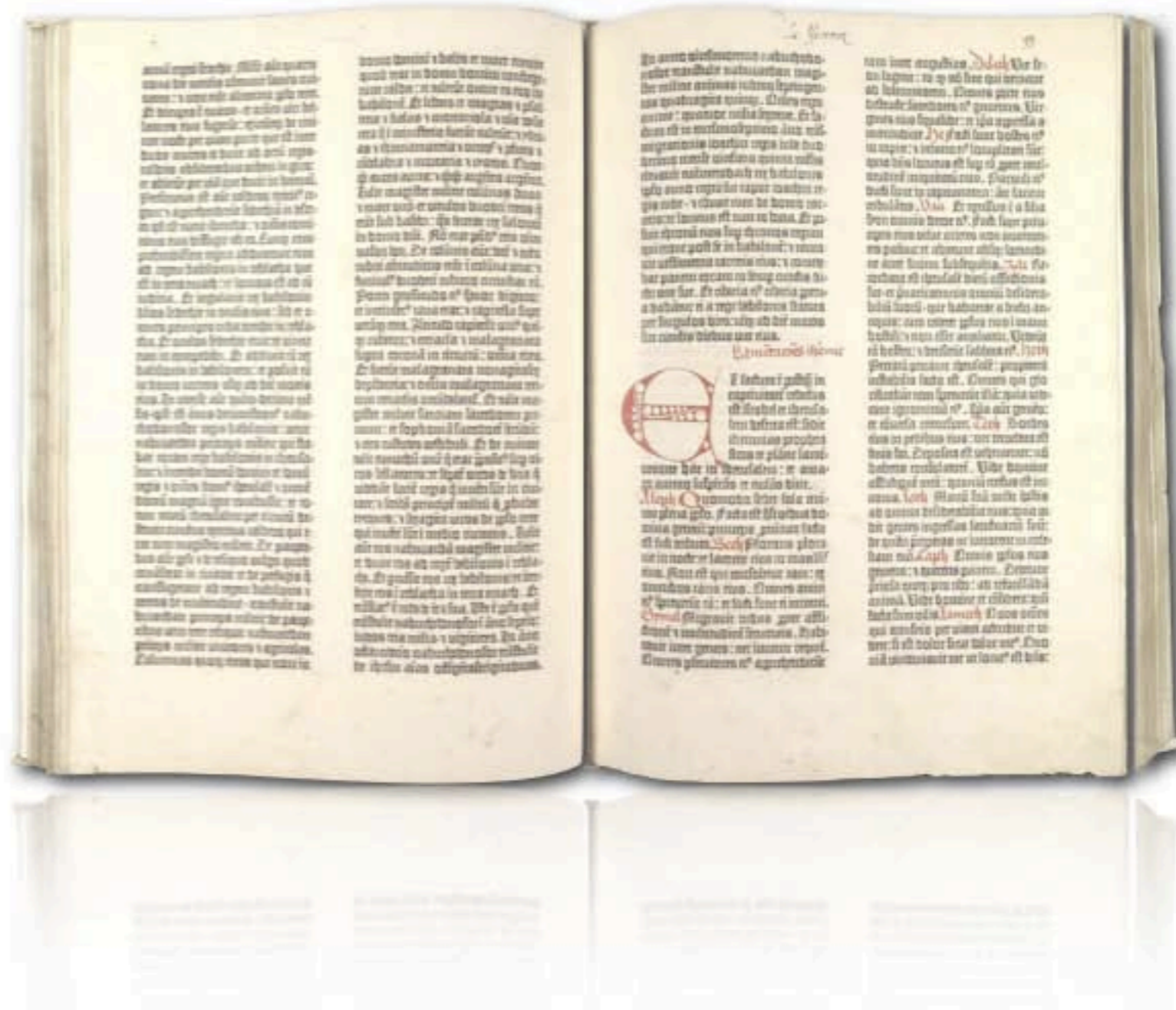
# Women+Comfortable Shoes



# Adult + Services

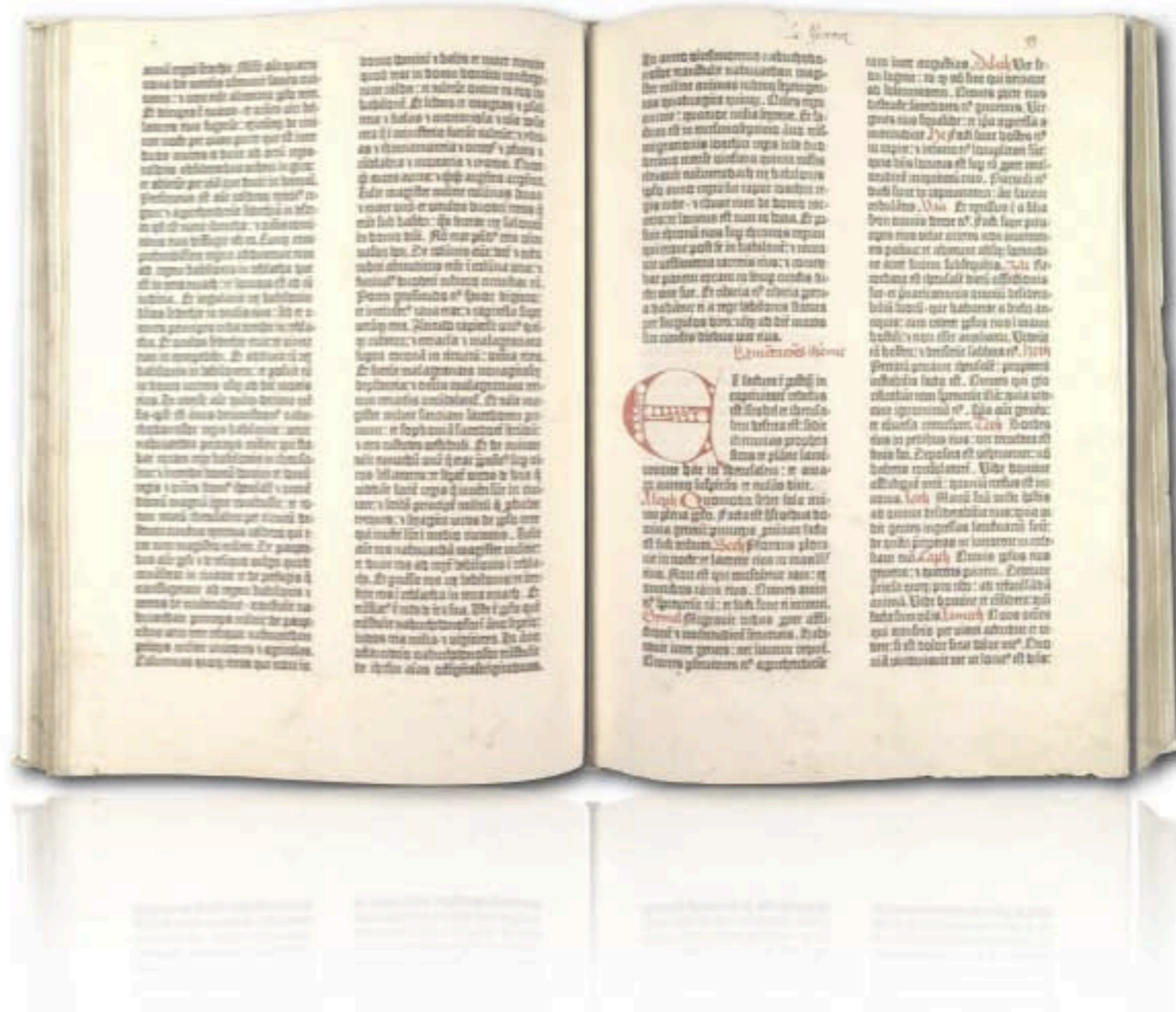


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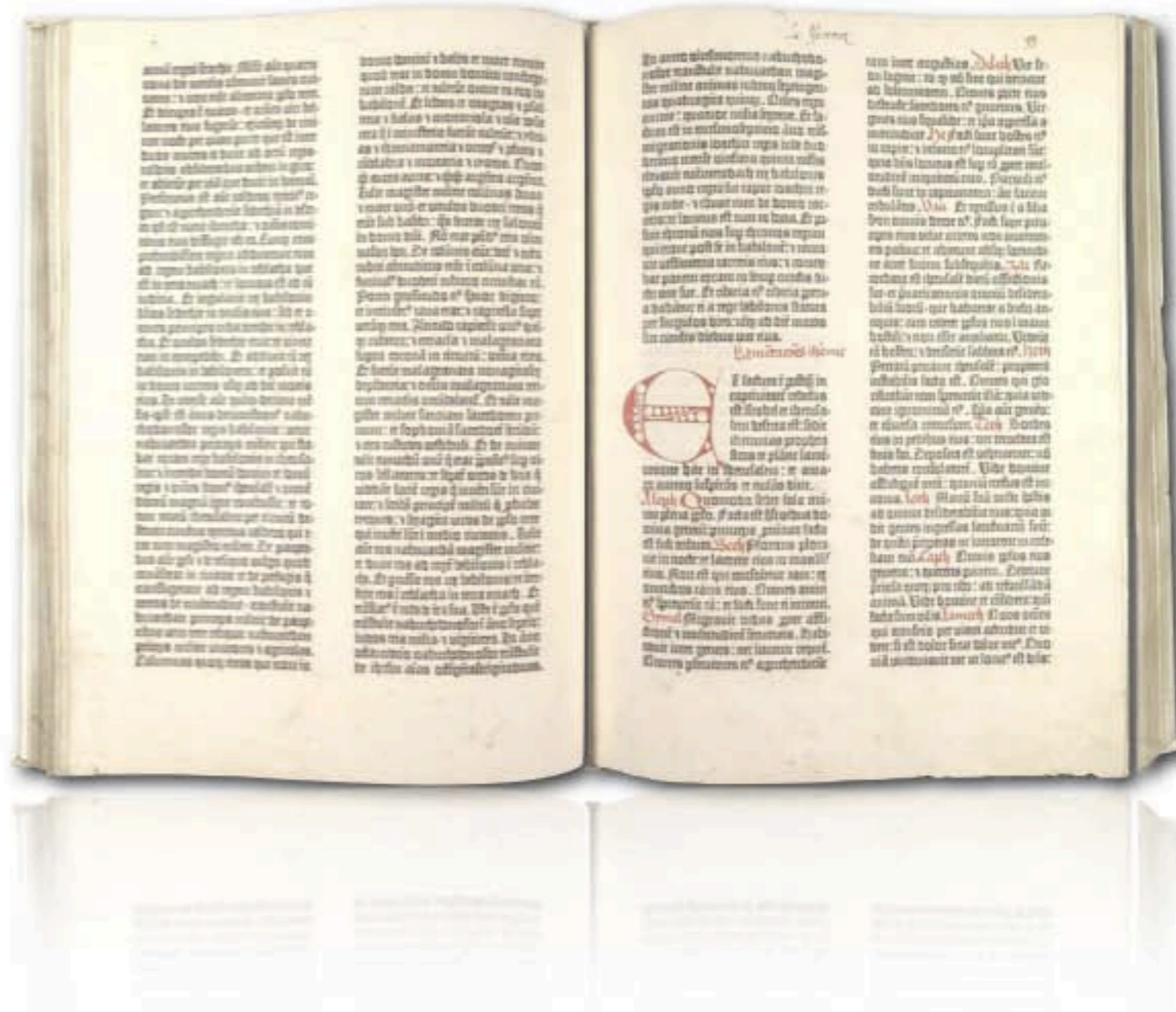
# Origin of Printing

# Artifact to be Preserved



# Origin of Printing

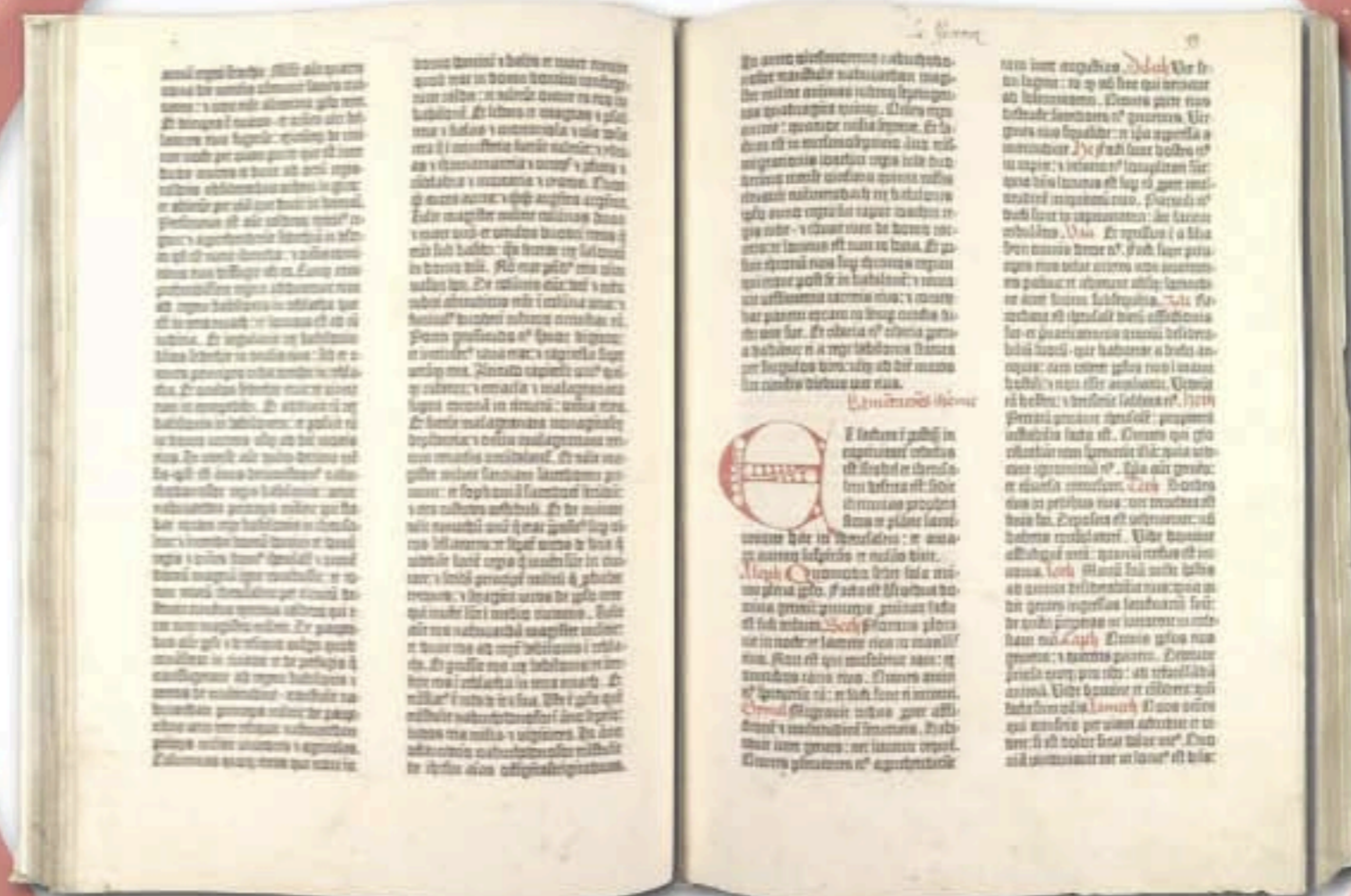
# Artifact to be Preserved



# Religious Truth

Origin of Printing

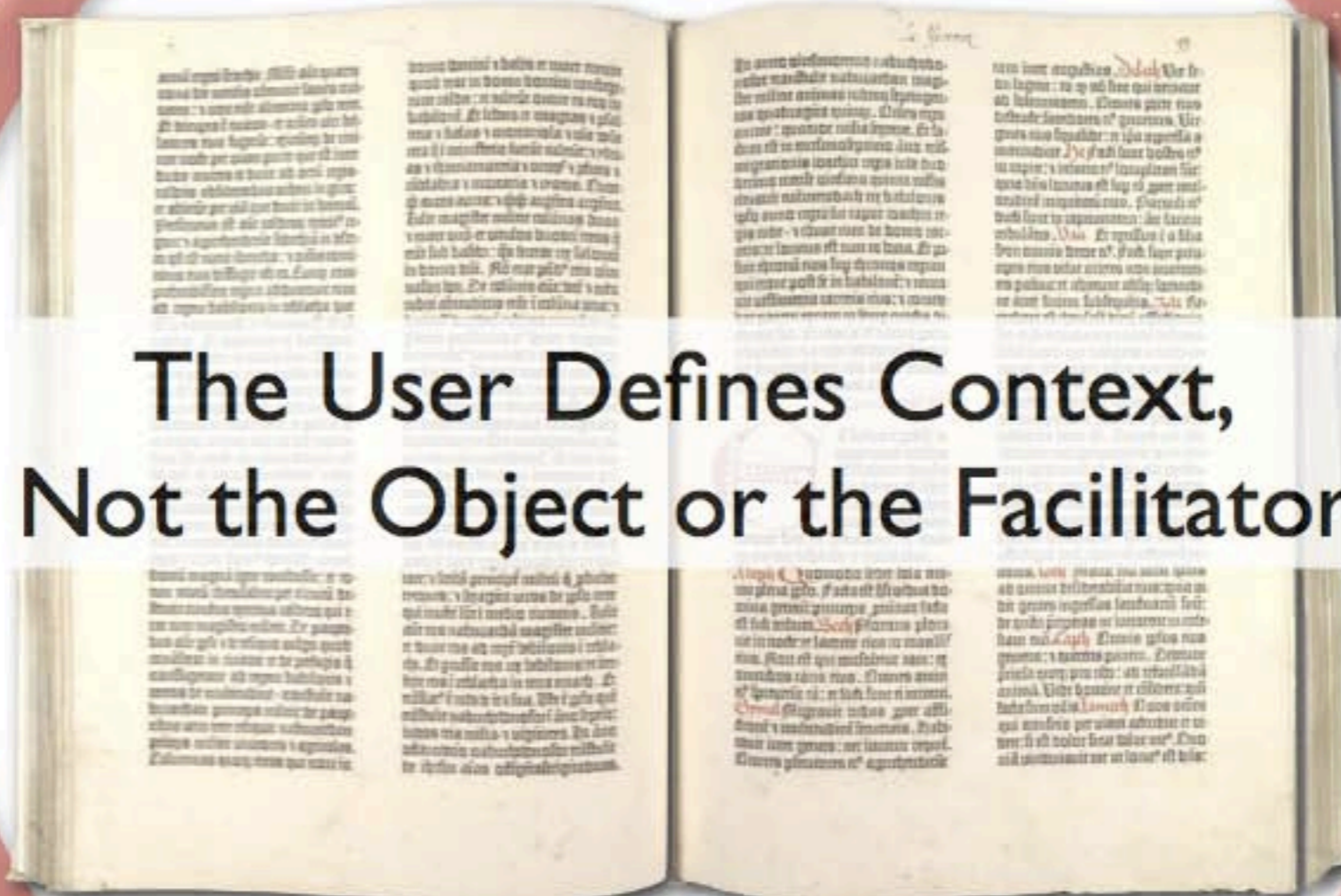
Artifact to be Preserved



Religious Truth

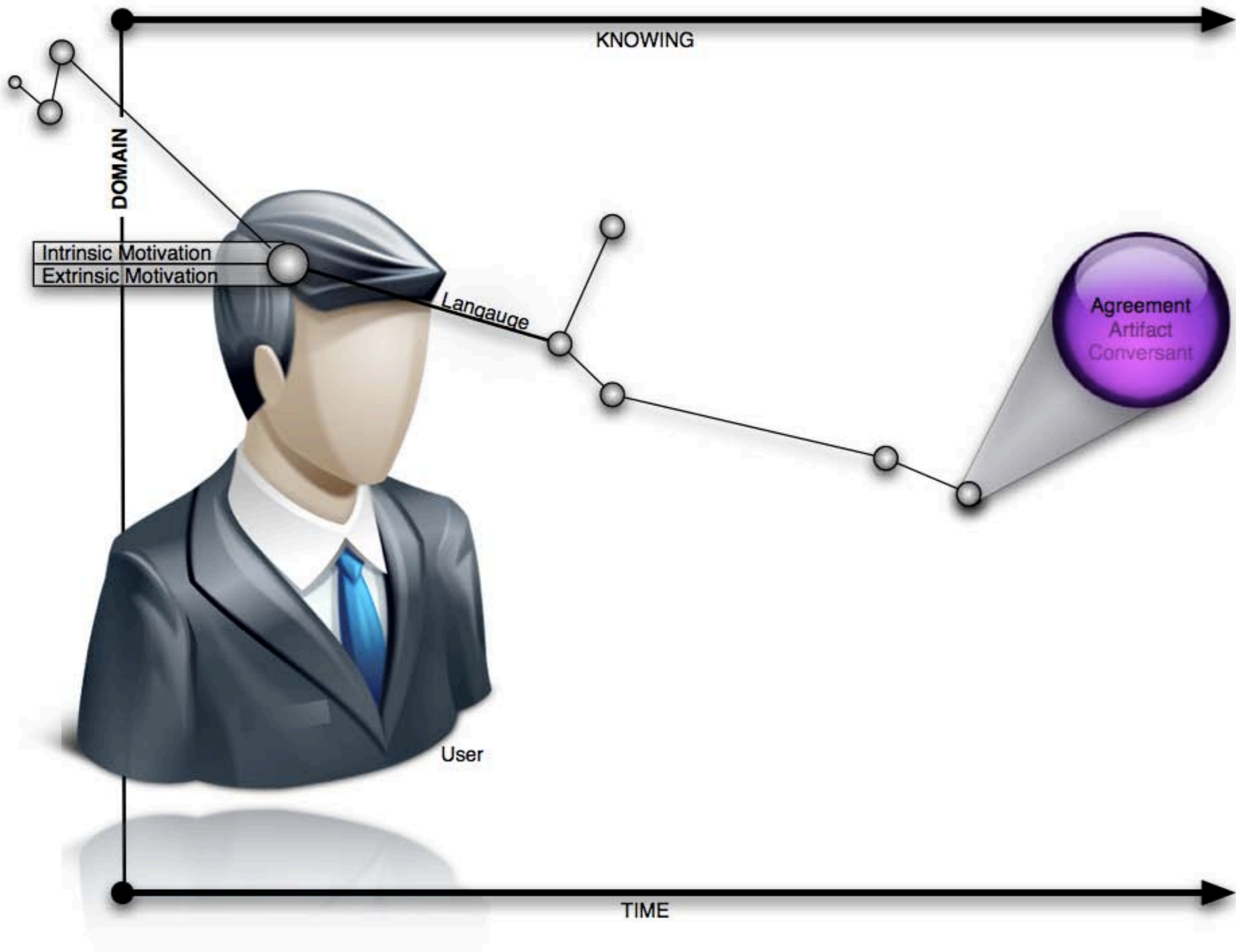
Origin of Printing

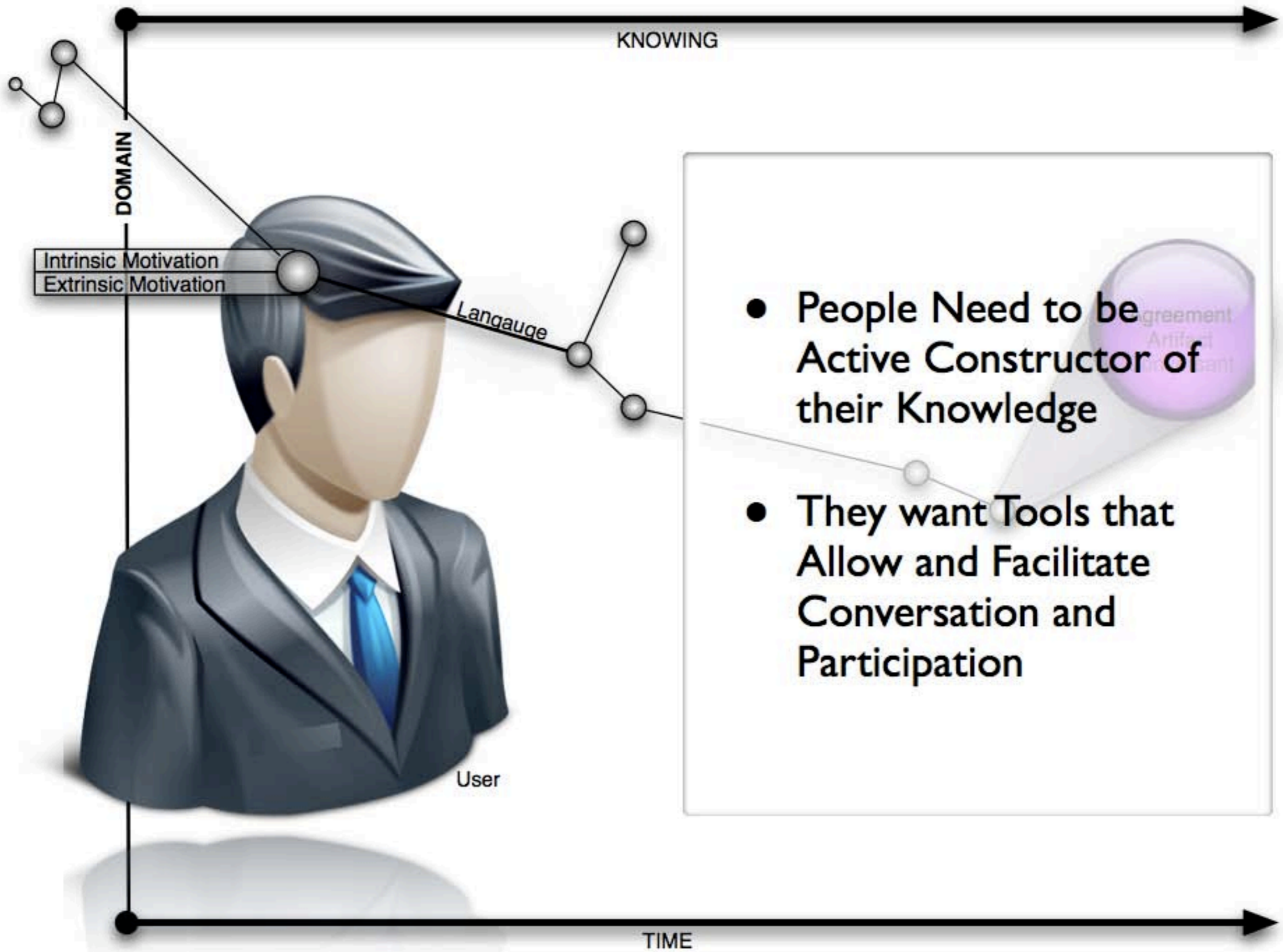
Artifact to be Preserved

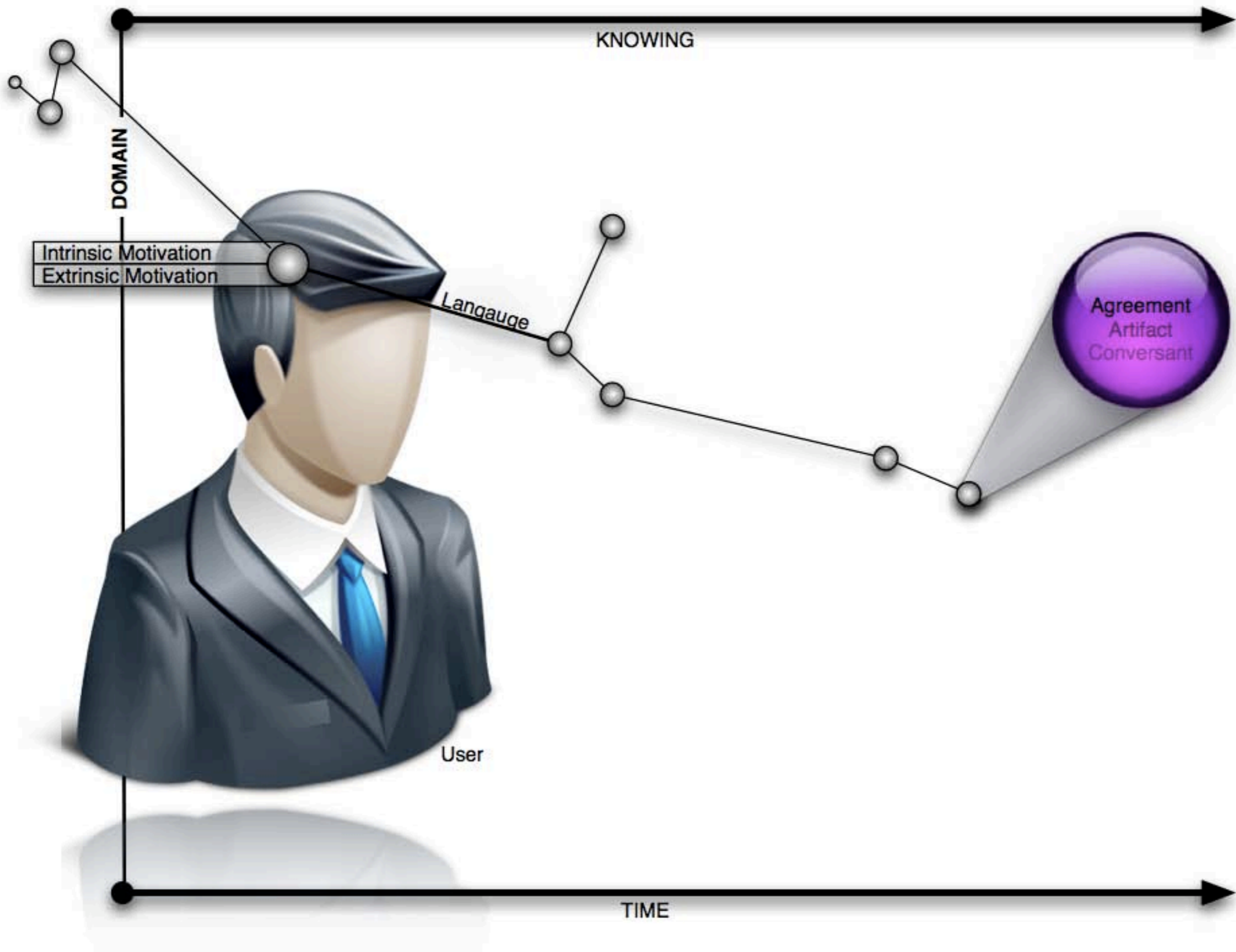


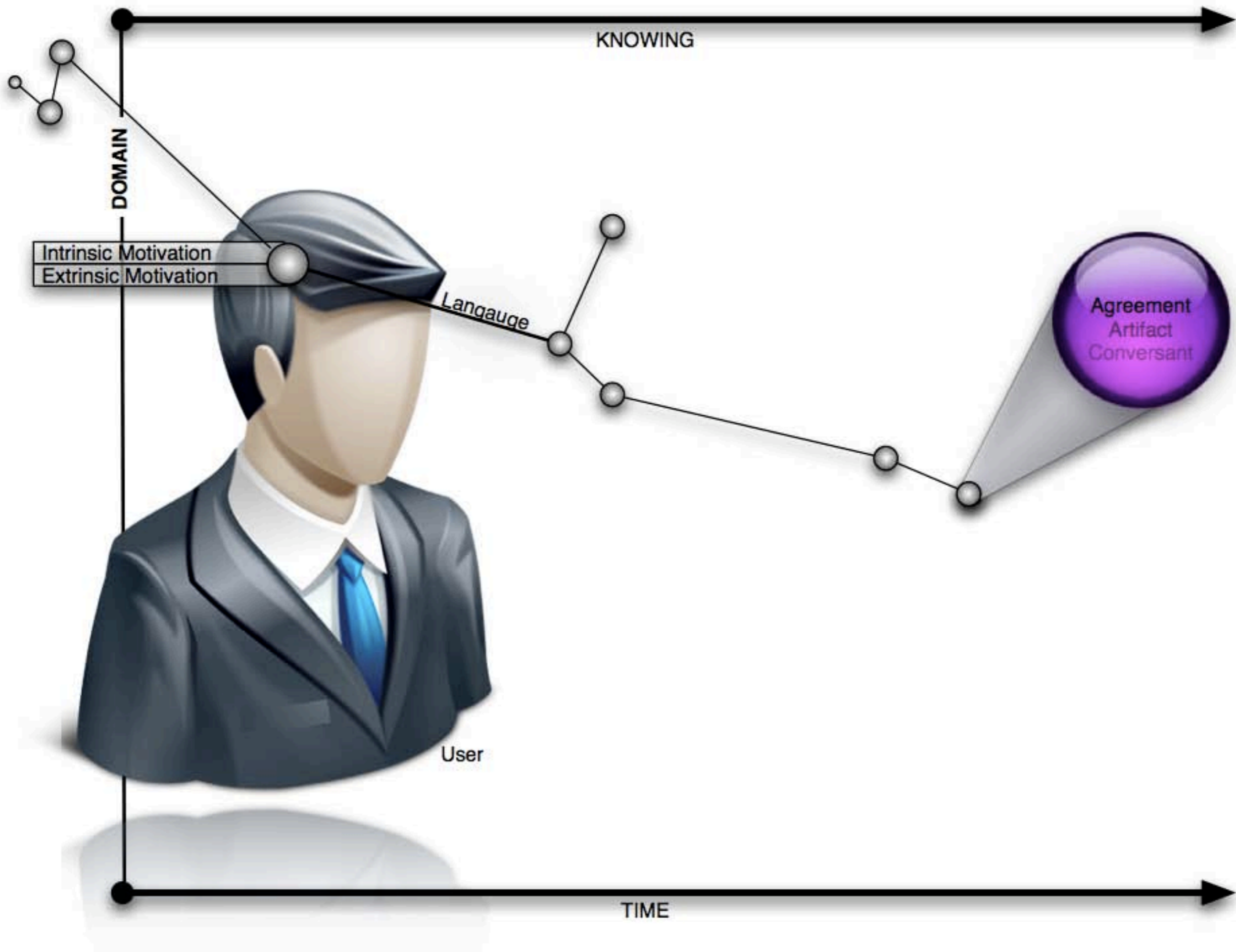
The User Defines Context,  
Not the Object or the Facilitator

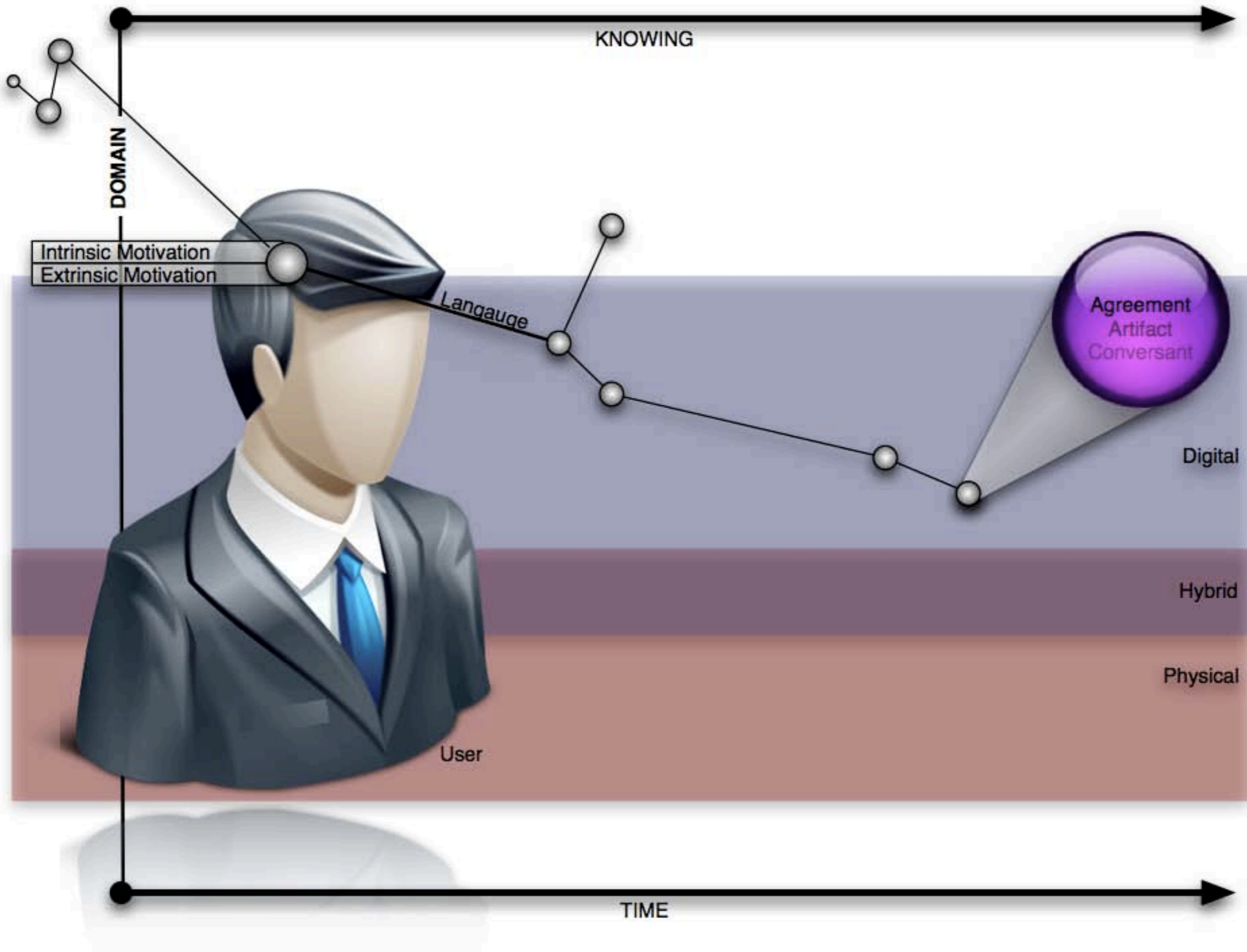
Religious Truth













**System View to User View**



# System View



## System View



## User-Based Design



# System View



# User-Based Design



# User Systems



# System View



# User-Based Design



# User Systems



# System View



Expert Driven

# User-Based Design



# User Systems



# System View



Expert Driven

# User-Based Design



User Derived

# User Systems



# System View



# User-Based Design



# User Systems



Expert Driven

User Derived

User Built

# System View



# User-Based Design



# User Systems



Expert Driven

User Derived

User Built

Loaded with Deep Functionality

# System View



# User-Based Design



# User Systems



Expert Driven

User Derived

User Built

Loaded with Deep Functionality

Loaded with Deep Functionality

# System View



# User-Based Design



# User Systems



Expert Driven

User Derived

User Built

Loaded with Deep Functionality

Loaded with Deep Functionality

Loaded with Shallow  
Functionality

# System View



# User-Based Design



# User Systems



Expert Driven

User Derived

User Built

Loaded with Deep Functionality

Loaded with Deep Functionality

Loaded with Shallow  
Functionality

Modal

# System View



# User-Based Design



# User Systems



Expert Driven

User Derived

User Built

Loaded with Deep Functionality

Loaded with Deep Functionality

Loaded with Shallow  
Functionality

Modal

Non-Modal

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User		

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User	Collaborative	

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User	Collaborative	Social

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User	Collaborative	Social
ILS		

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User	Collaborative	Social
ILS	Operating Systems	

# System View



# User-Based Design



# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User	Collaborative	Social
ILS	Operating Systems	Web 2.0

# System View



Expert Driven

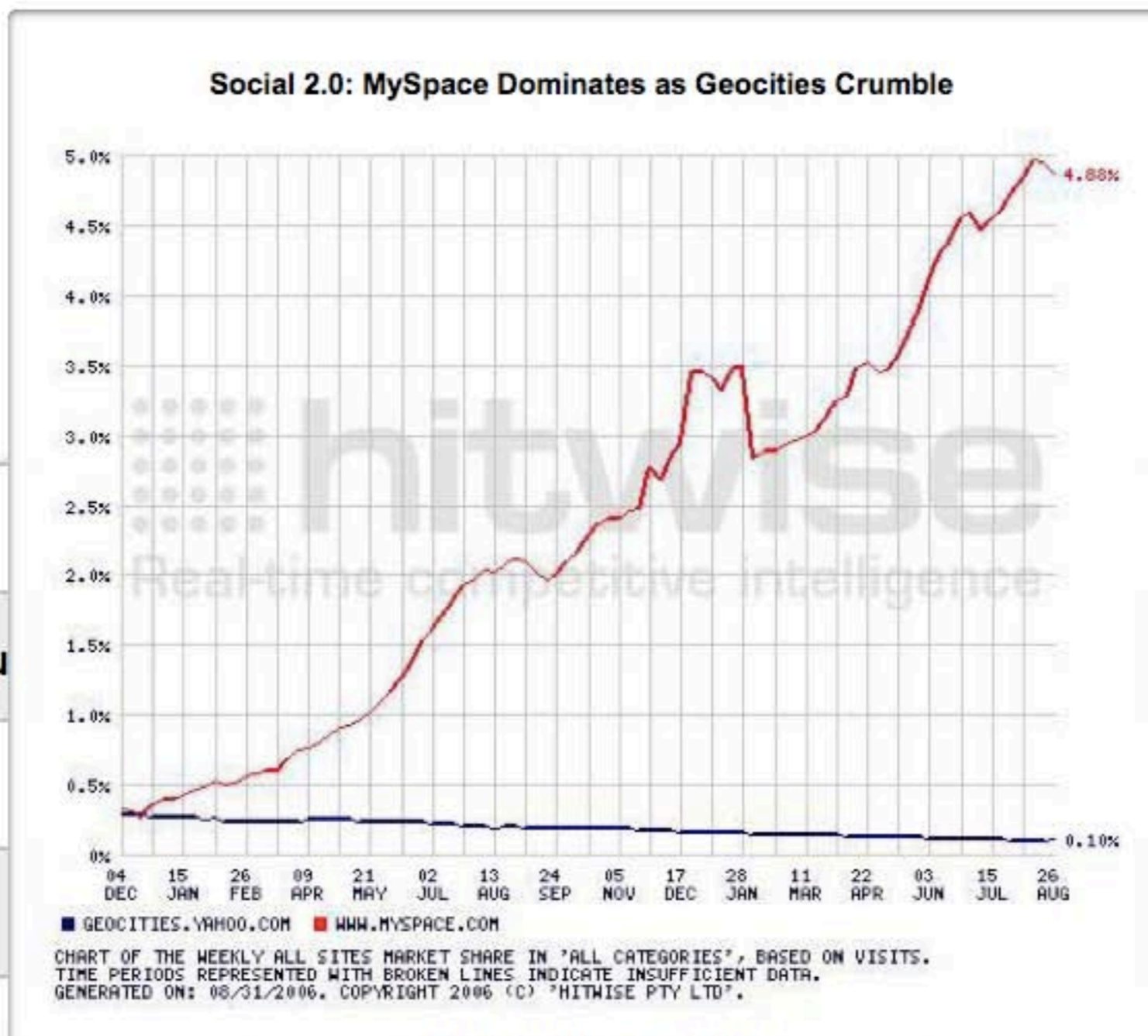
Loaded with Deep Fu

Modal

Targeted User

ILS

# User-Based Design



# User Systems



User Built

Loaded with Shallow  
Functionality

Highly Customizable

Social

Web 2.0

# System View



Expert Driven

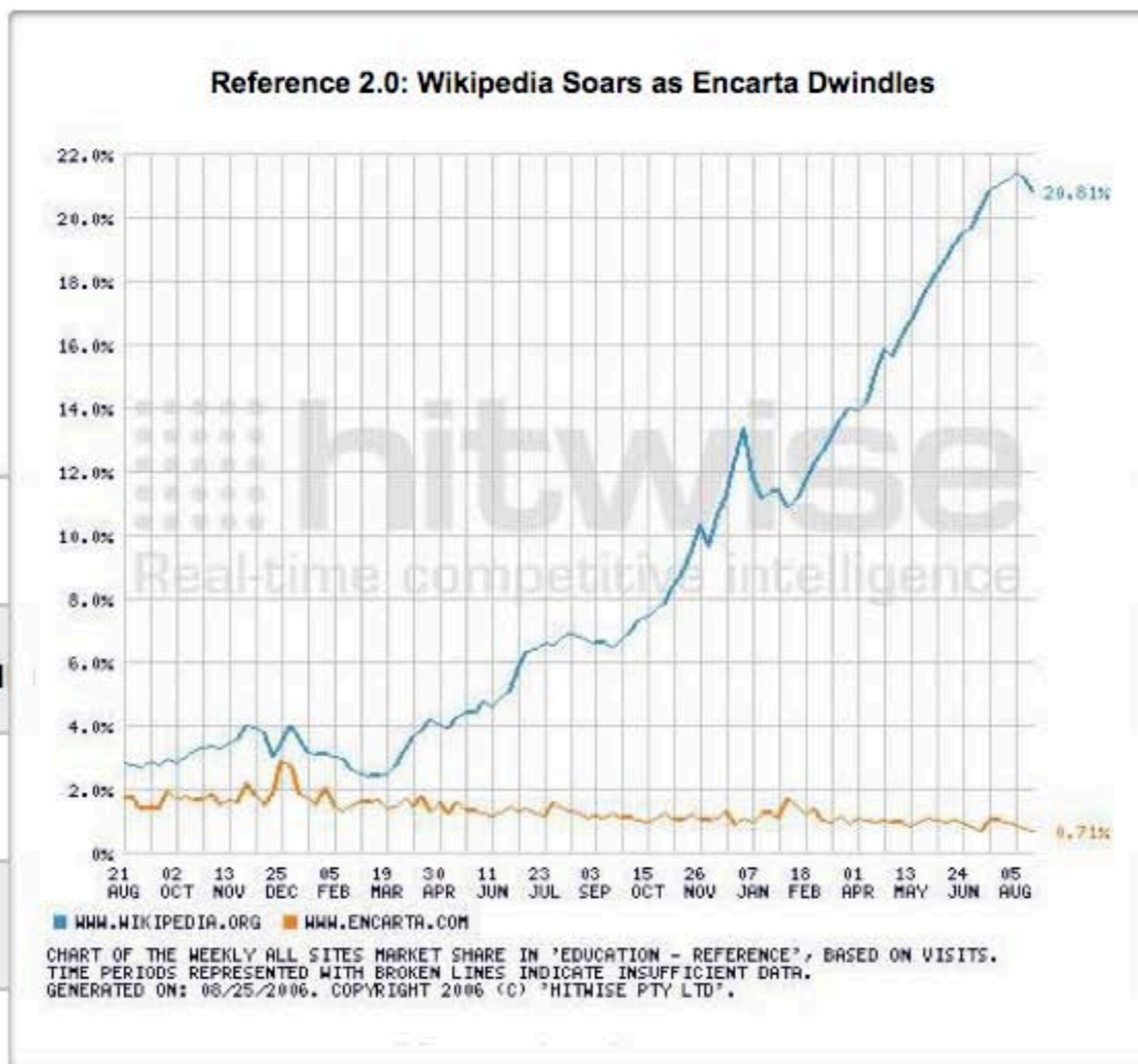
Loaded with Deep Fu

Modal

Targeted User

ILS

# User-Based Design



# User Systems



User Built

Loaded with Shallow  
Functionality

Highly Customizable

Social

Web 2.0

# System View



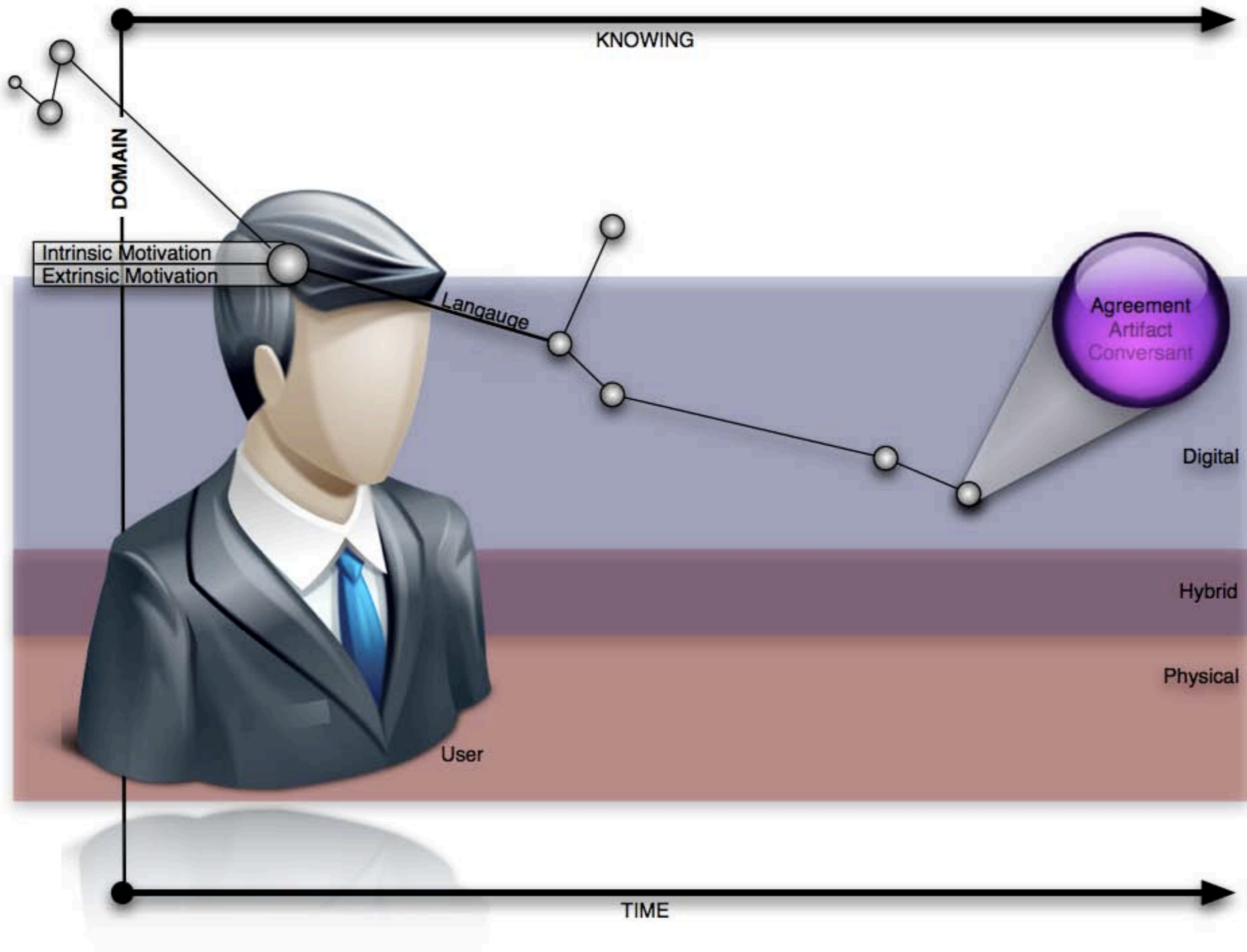
# User-Based Design

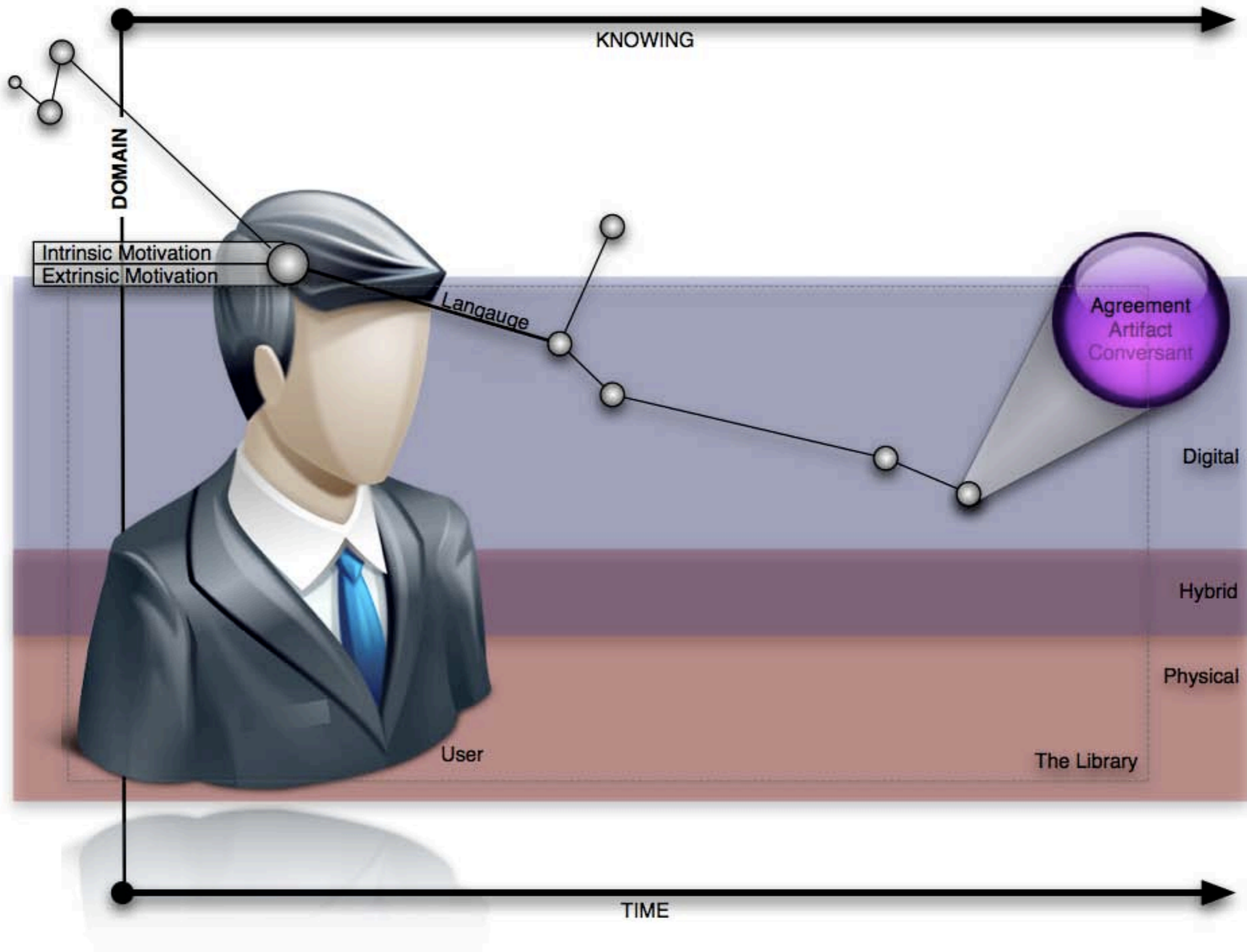


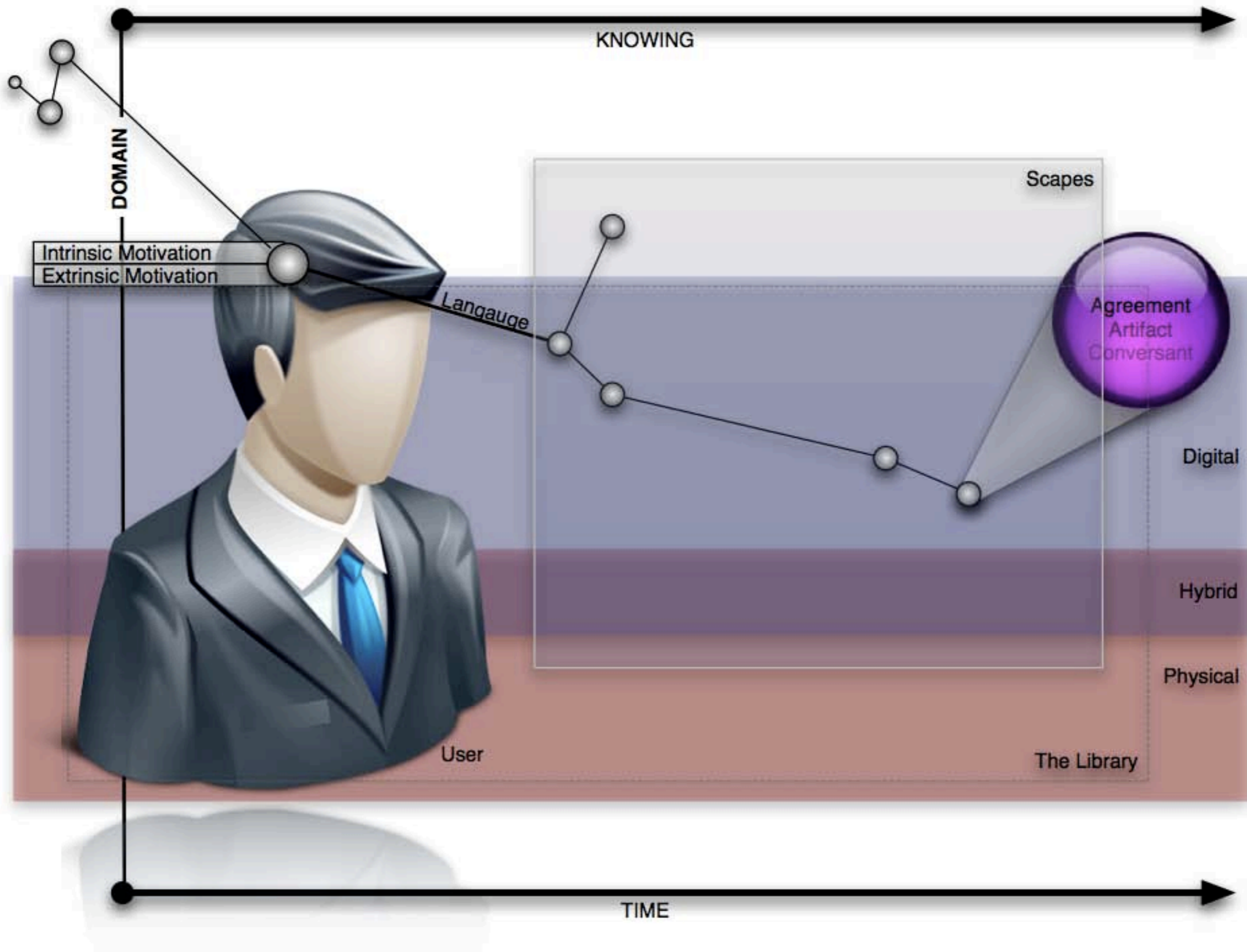
# User Systems



Expert Driven	User Derived	User Built
Loaded with Deep Functionality	Loaded with Deep Functionality	Loaded with Shallow Functionality
Modal	Non-Modal	Highly Customizable
Targeted User	Collaborative	Social
ILS	Operating Systems	Web 2.0















Spotlight

rich girl

Show All

Top Hit

Gwen Stefani - Rich Girl (fea...

Documents

The Truth Behind Costco Ca...  
 mygraph.xml  
 saveResult.xml

Messages

HURRY!!! Join The Best Gold ...  
 HURRY!!! Join The Best Gold ...  
 HURRY!!! Join The Best Gold ...  
 Re: Hello from a Former Stu...

Images

0391 Adobe ID 099ASP9440...  
 0143 Adobe ID 164ASP9440...  
 0099 Adobe ID 099ASPea36...  
 0136 Adobe ID 099ASPea36...

PDF Documents

RG.pdf — 192823  
 RG.pdf — 192818  
 RG.pdf — 192811

Webpages

Gwen Stefani - Rich Girl (fea...  
 Dee Bradley Baker  
 The Internet Movie Database...

Music

02 Rich Girl.mp3 — 192823  
 02 Rich Girl.mp3 — 192818  
 02 Rich Girl.mp3 — 192811



Rich Girl



Rich Girl



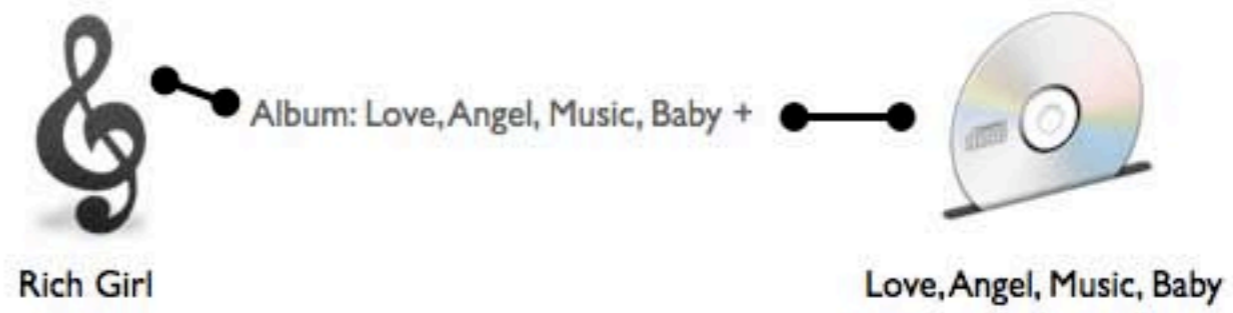
Rich Girl

Artist: Gwen Stefani +

Artist: Eve +

Album: Love, Angel, Music, Baby +

Release Date: 2004 +





Spotlight ✕

Friends

Homework Helper

Librarians

Show All

Anna Maria  
Jeff Penka  
Joe Janes  
Donna Dinberg  
Steve Job

Math Tutor  
English Tutor  
Social Studies Tutor  
Science Tutor  
History Tutor

☐ Check this box to make this session anonymous. [Please click here for explanation.](#)

**Name (required)**

**Email Address**

**Confirm Email Address**

**Your Question**

Connect

Exit

Hey Jeff, do you know where I can find the lyrics to this song?



Rich Girl

Album: Love,Angel, Music, Baby +



Love,Angel, Music, Baby

|



Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...

|



Rich Girl

Album: Love,Angel, Music, Baby +




Love,Angel, Music, Baby

Chat with AOLYellowPages

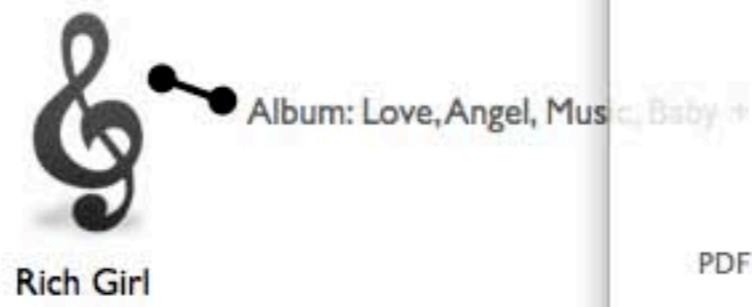
Hey Jeff, do you know where I can find the lyrics to this song?








Hold on...









Spotlight rich girl lyrics


Show All


Top Hit


Documents


 RichMan Example

 mygraph.xml


 QP001-050.doc — 190433


 QP001-050.doc — 190426


 June URLs.xls — 190278

 June URLs.xls — 188265


Messages


 Re: Hello from a Former Stu...


 Re: Hello from a Former Stu...


 Re: Hello from a Former Stu...

PDF Documents


 RG.pdf — 192823


 RG.pdf — 192818


 RG.pdf — 192811


 DMECReport.pdf


Webpages


 Love, angel, music, baby [W...

 Gwen Stefani - Rich Girl (fea...

 Here Comes Another Bubble...

 Fiddler on the Roof - Wikip...

 Gwen Stefani - Rich Girl (fea...


 writer credit gwen stefani ric...

Spotlight Preferences...


Chat with AOLYellowPages

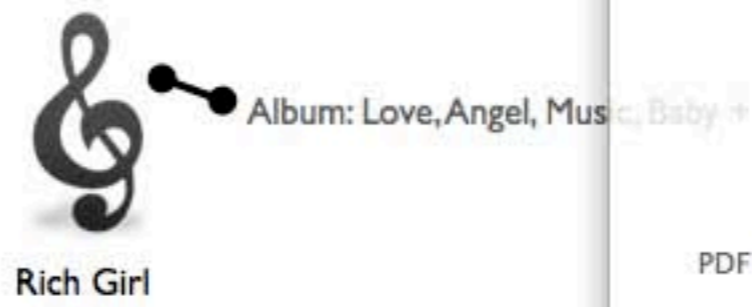
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Hold on...

Here's a Scape someone did n the lyrics, I'll bring it in.







Spotlight rich girl lyrics

Show All

Top Hit Gwen Stefani - Rich Girl (fea...

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QP001-050.doc — 190426

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Gwen Stefani - Rich Girl (fea...

writer credit gwen stefani ric...

Spotlight Preferences...

Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...



Here's a Scape someone did on the lyrics, I'll bring it in.



Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...



Here's a Scape someone did on the lyrics, I'll bring it in.



Album: Lov

Rich Girl



Na, na, na, na, na, na, na, na, na, na, na, na  
Na, na, na, na, na, na, na, na, na, na, na, na  
[2x]

If I was a rich girl (na, na....)  
See, I'd have all the money in the world, if I was a wealthy girl  
No man could test me, impress me, my cash flow would never ever end  
Cause I'd have all the money in the world, if I was a wealthy girl

Think what that money could bring  
I'd buy everything  
Clean out Vivienne Westwood  
In my Galliano gown  
No, wouldn't just have one hood  
A Hollywood mansion if I could  
Please book me first-class to my fancy house in London town

All the riches baby, won't mean anything  
All the riches baby, won't bring what your love can bring  
All the riches baby, won't mean anything  
Don't need no other baby  
Your lovin' is better than gold, and I know

If I was rich girl (na, na...)  
See, I'd have all the money in the world, if I was a wealthy girl  
No man could test me, impress me, my cash flow would never ever end  
Cause I'd have all the money in the world, if I was a wealthy girl

I'd get me four Harajuku girls to (uh huh)  
Inspire me and they'd come to my rescue  
I'd dress them wicked, I'd give them names (yeah)  
Love, Angel, Music, Baby  
Hurry up and come and save me

All the riches baby, won't mean anything  
All the riches baby, won't bring what your love can bring  
All the riches baby, won't mean anything  
Don't need no other baby  
Your lovin' is better than gold, and I know

[Eve]  
Come together all over the world  
From the hoods of Japan, Harajuku girls  
What, it's all love  
What, give it up  
What (shouldn't matter 4x) what

Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...



Here's a Scape someone did on the lyrics, I'll bring it in.





Hold on...




Here's a Scape someone did on the lyrics, I'll bring it in.






Chat with AOLYellowPages


Hey Jeff, do you know where I can find the lyrics to this song?




Hold on...




Here's a Scape someone did on the lyrics, I'll bring it in.



Cool, but I know I've heard something like this before.





Album: Love, Angel, I

Rich Girl

In my Galliano

I'd get me four l

Clean out Vivier

See Stefani and

Spotlight

Show All

Friends

Anna Maria

Jeff Penka

Joe Janes

Donna Dinberg

Steve Job

Homework Helper

Math Tutor

English Tutor

Social Studies Tutor

Science Tutor

History Tutor

Librarians

☐ Check this box to make this session anonymous. [Please click here for explanation.](#)

Name (required)


Email Address

Confirm Email Address

Your Question

Connect

Exit

  
[http://en.wikipedia.org/wiki/Harajuku\\_Girls](http://en.wikipedia.org/wiki/Harajuku_Girls)



Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...

Here's a Scape someone did on the lyrics, I'll bring it in.

Cool, but I know I've heard something like this before.

Hi...do you know if this song is a remake?



Hey Jeff, do you know where I can find the lyrics to this song?



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Here's a Scape someone did on the lyrics, I'll bring it in.

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Hi...do you know if this song is a remake?

Actually it is a remake of a song from Fiddler on the Roof



Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...

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Actually it is a remake of a song from Fiddler on the Roof

I'll go ahead and add that information





Normal 3 Times New Roman



Add From Catalog

[Add From Amazon](#)

Add From LibraryThing

Add From Database

Add GoogleMap

Add Google Search

Add URL

Upload Item

[Add Conversation](#)

[Add Person](#) [Add Question](#)

by

## ni Back up Dancers +



[http://en.wikipedia.org/wiki/Harajuku\\_Girls](http://en.wikipedia.org/wiki/Harajuku_Girls)



Hey Jeff, do you know where I can find the lyrics to this song?



Hold on...

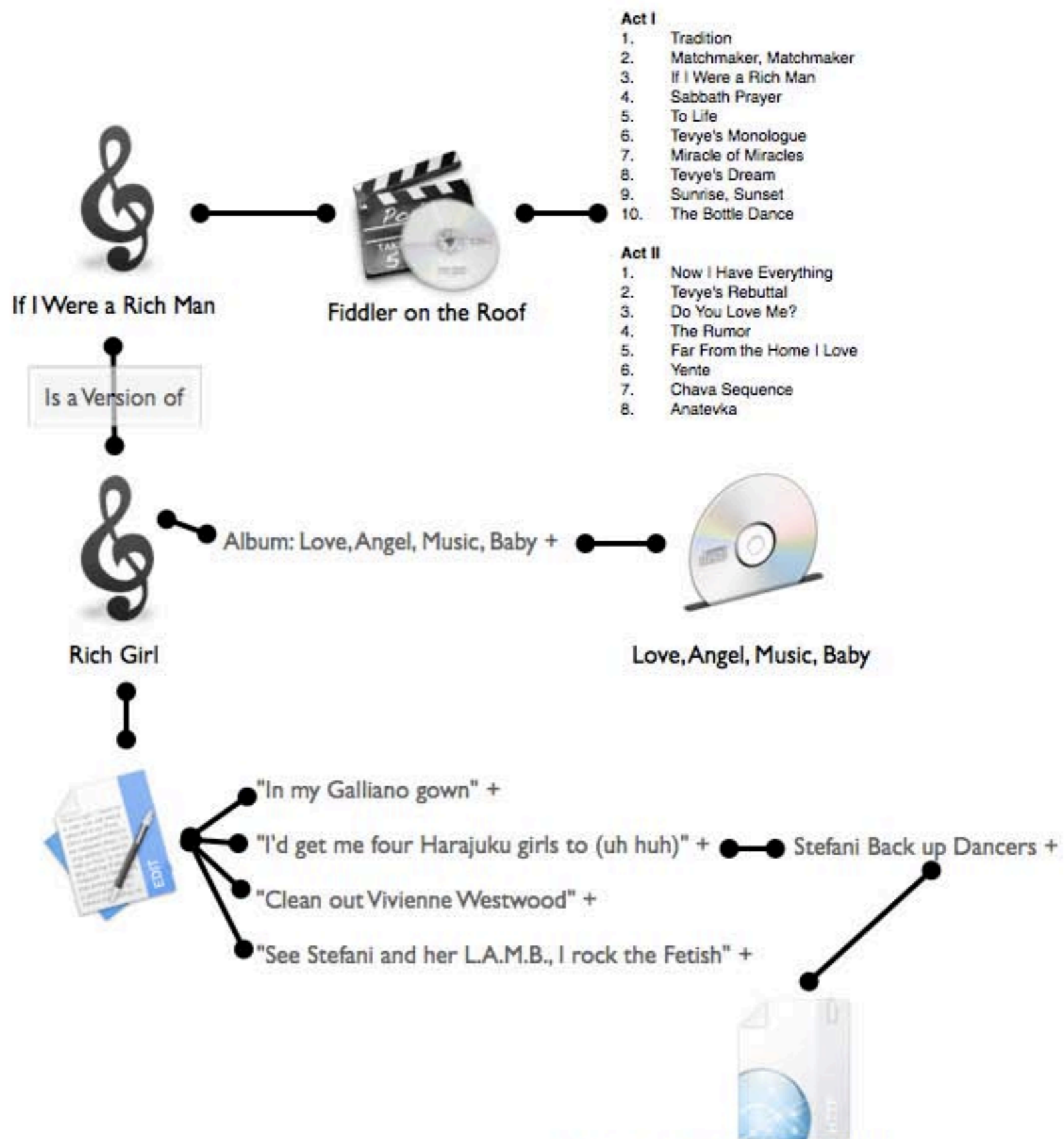
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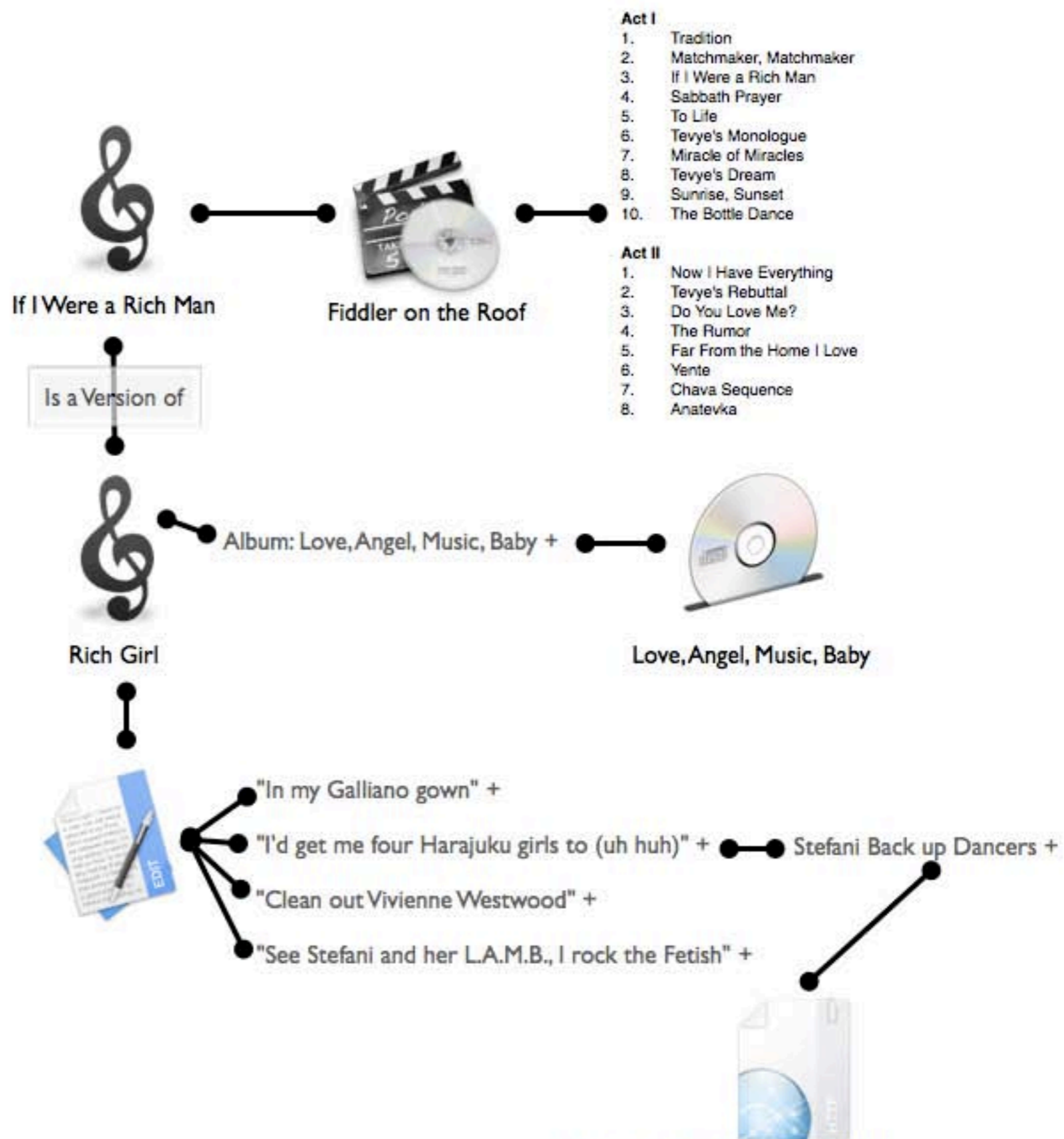
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**Lankes signed off**  
**Librarian signed off**  
**Penka signed off**



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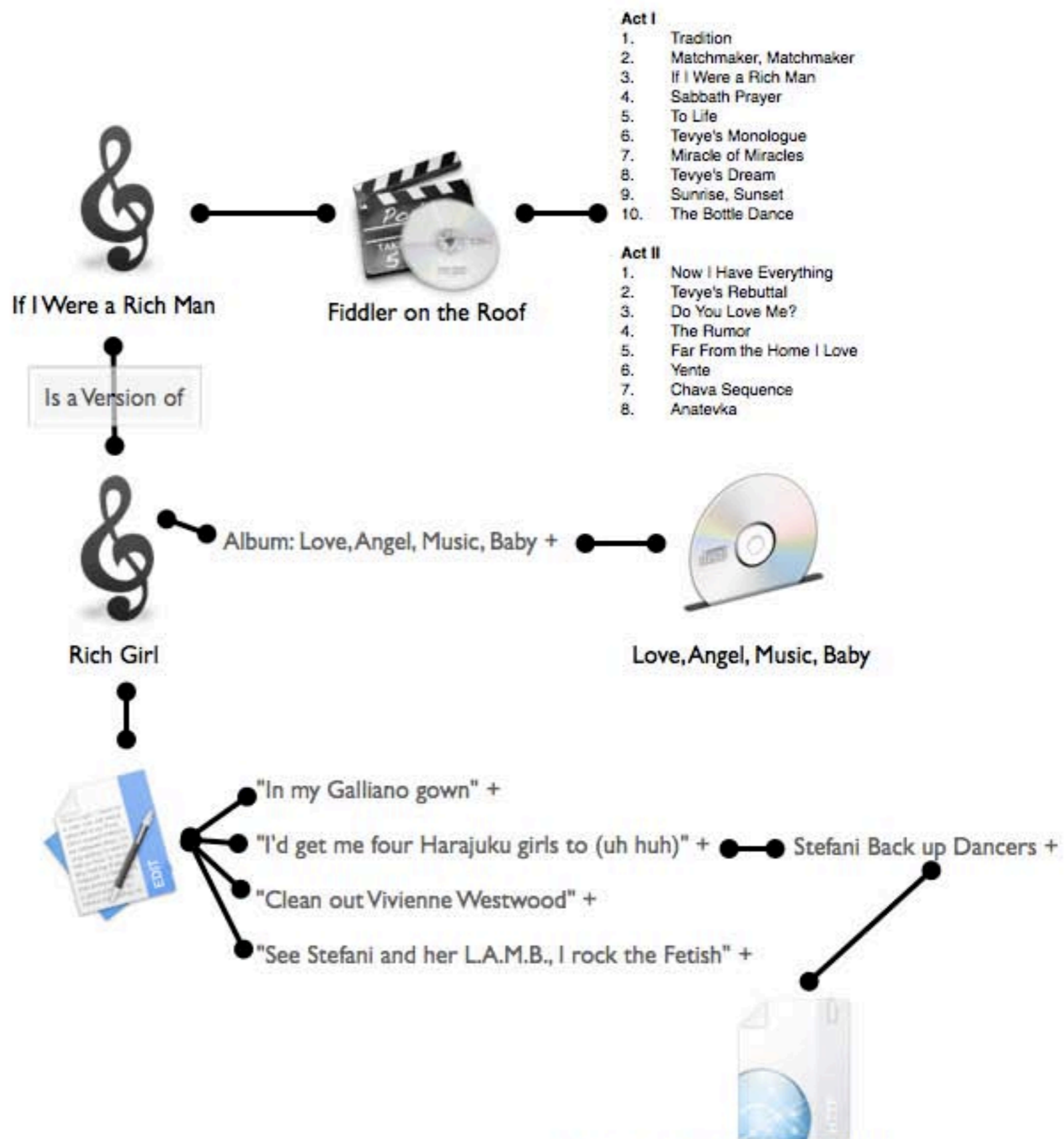
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You know, she also remade a song from Sound of Music



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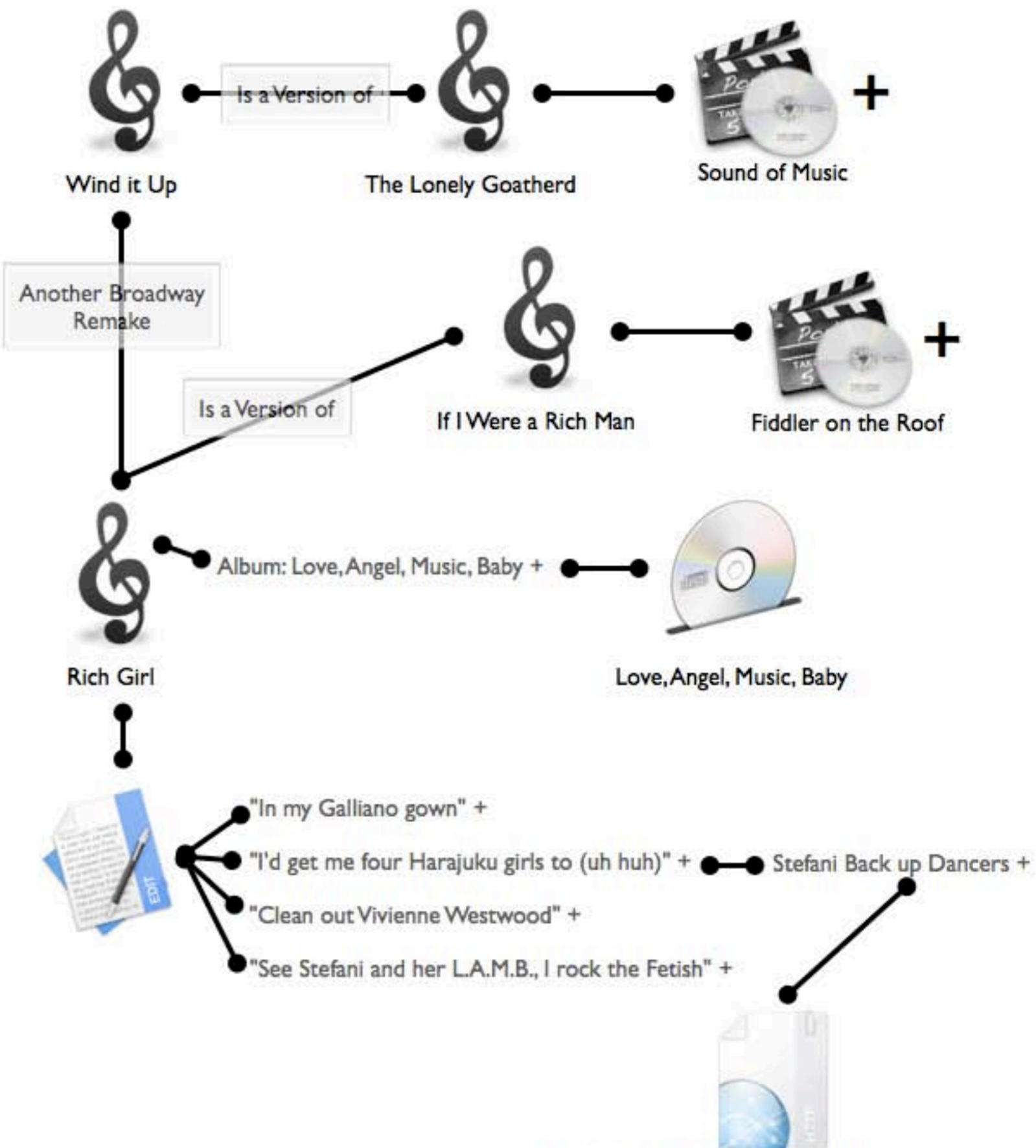
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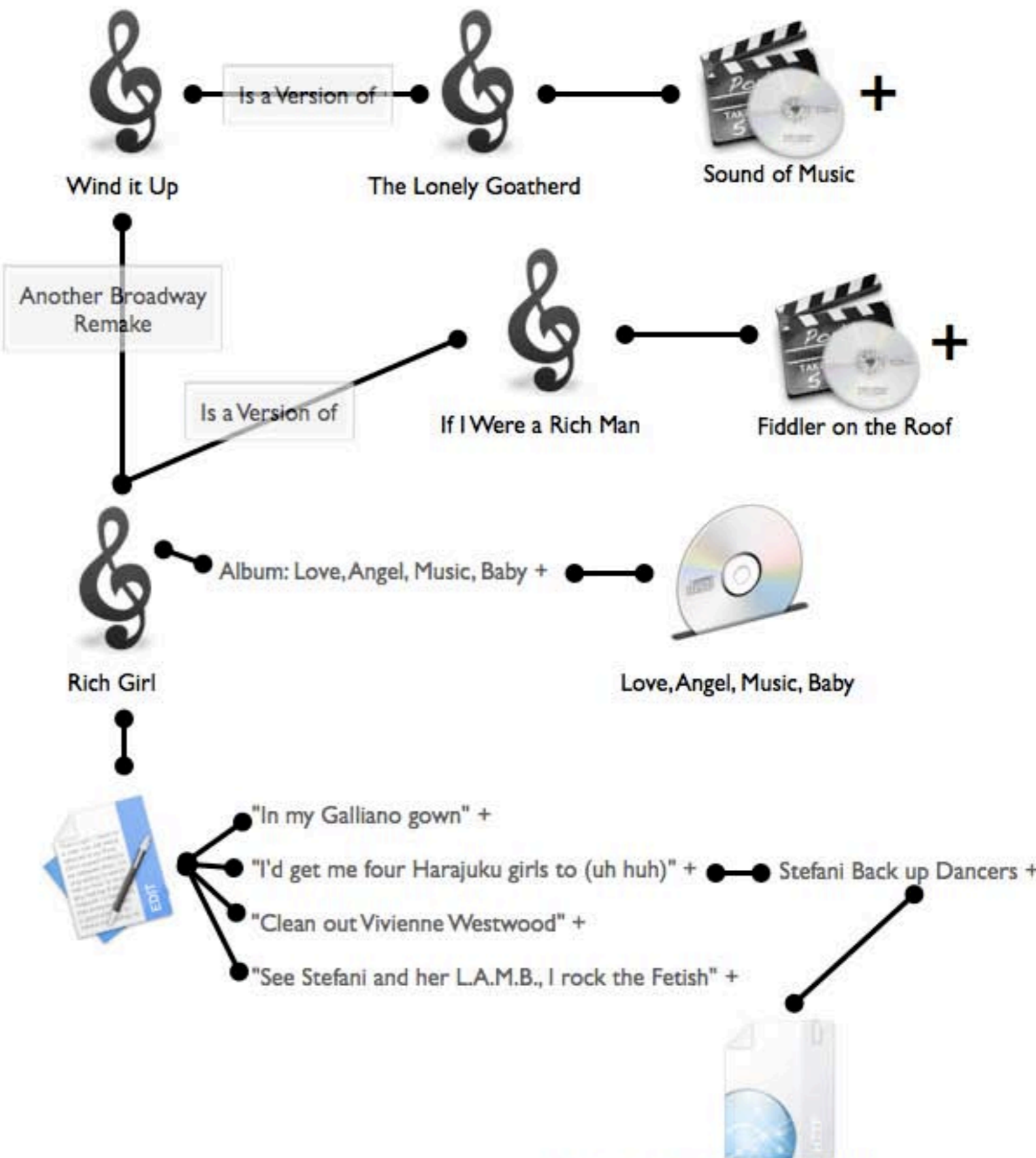
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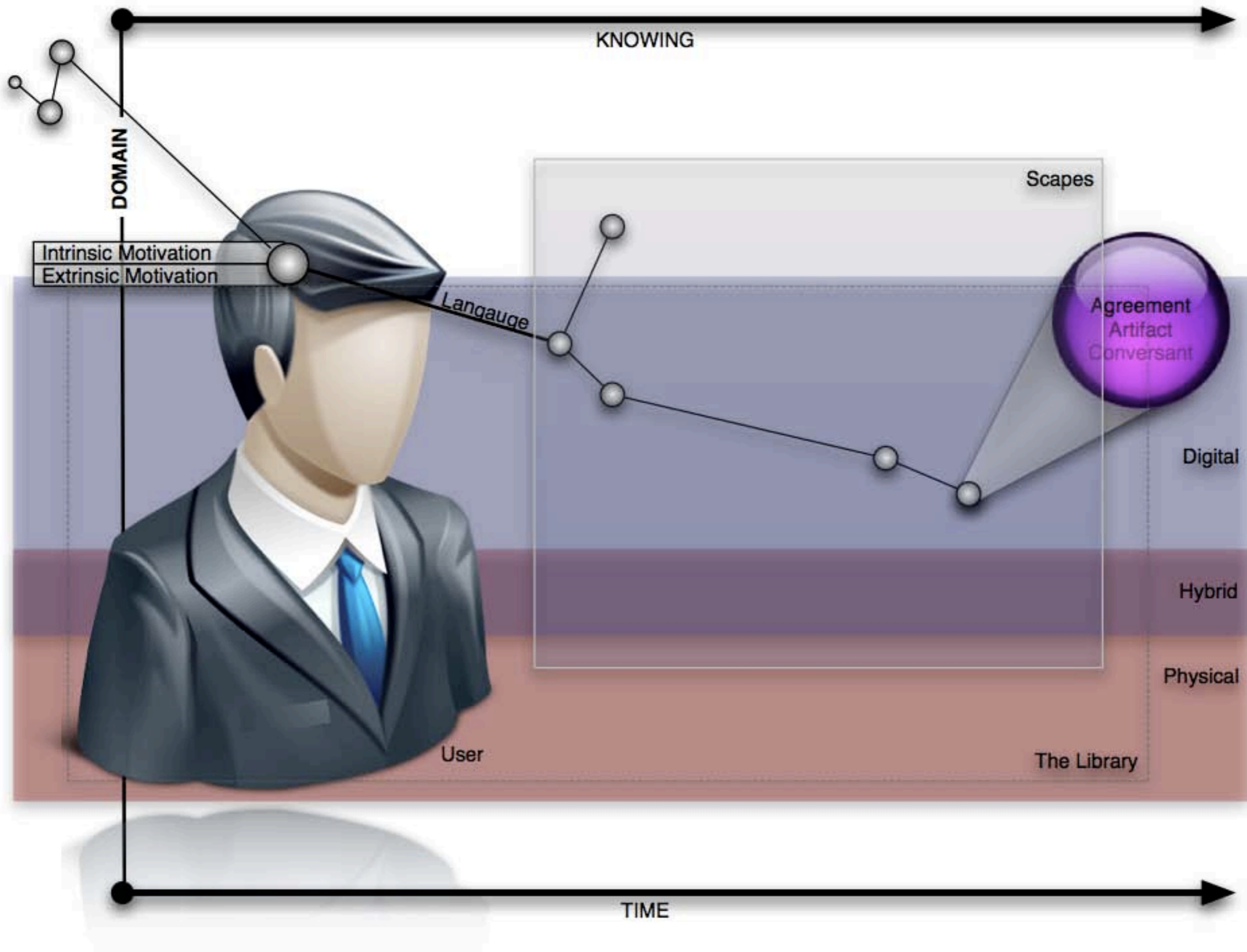
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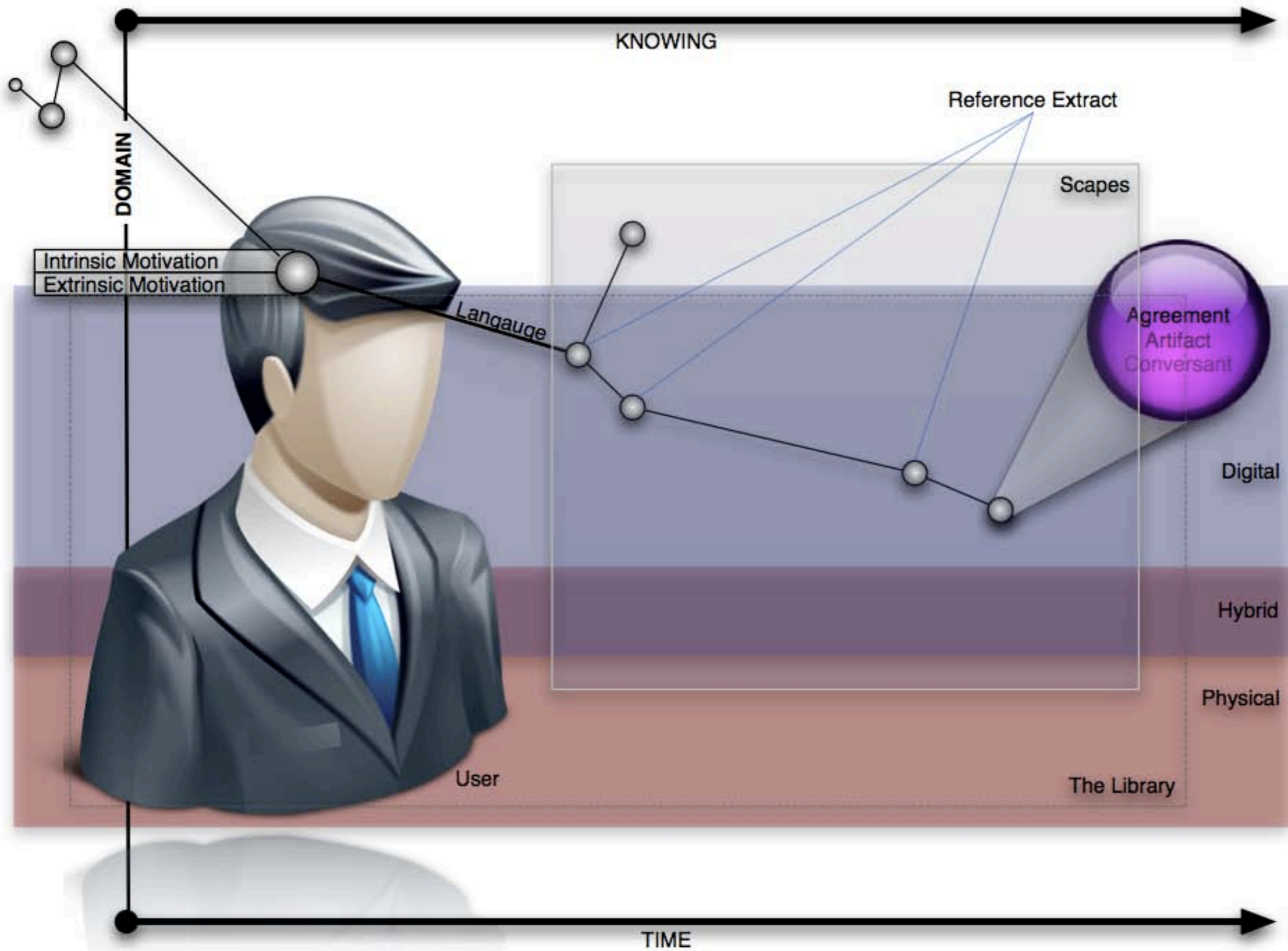
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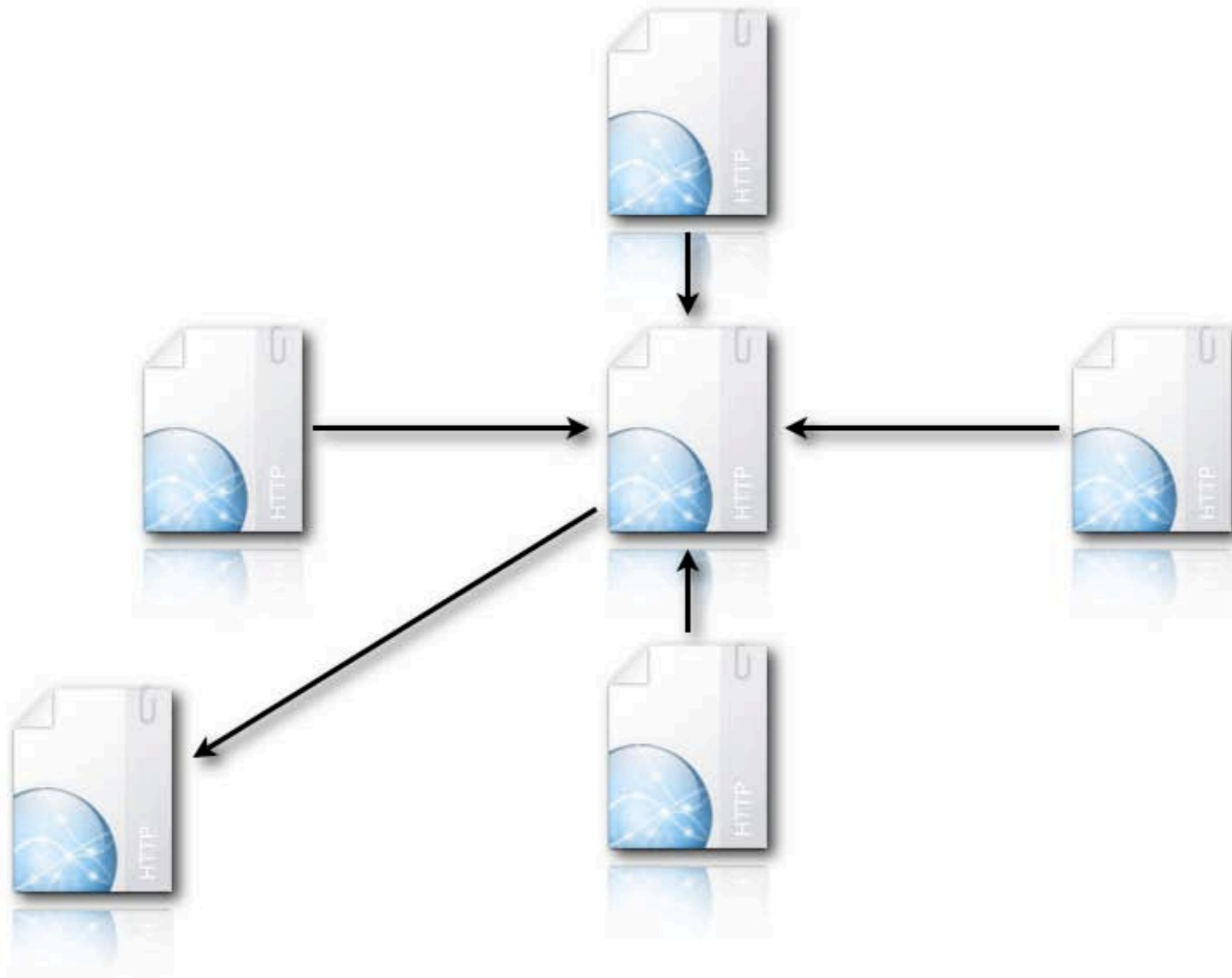
You know, she also remade a song from Sound of Music





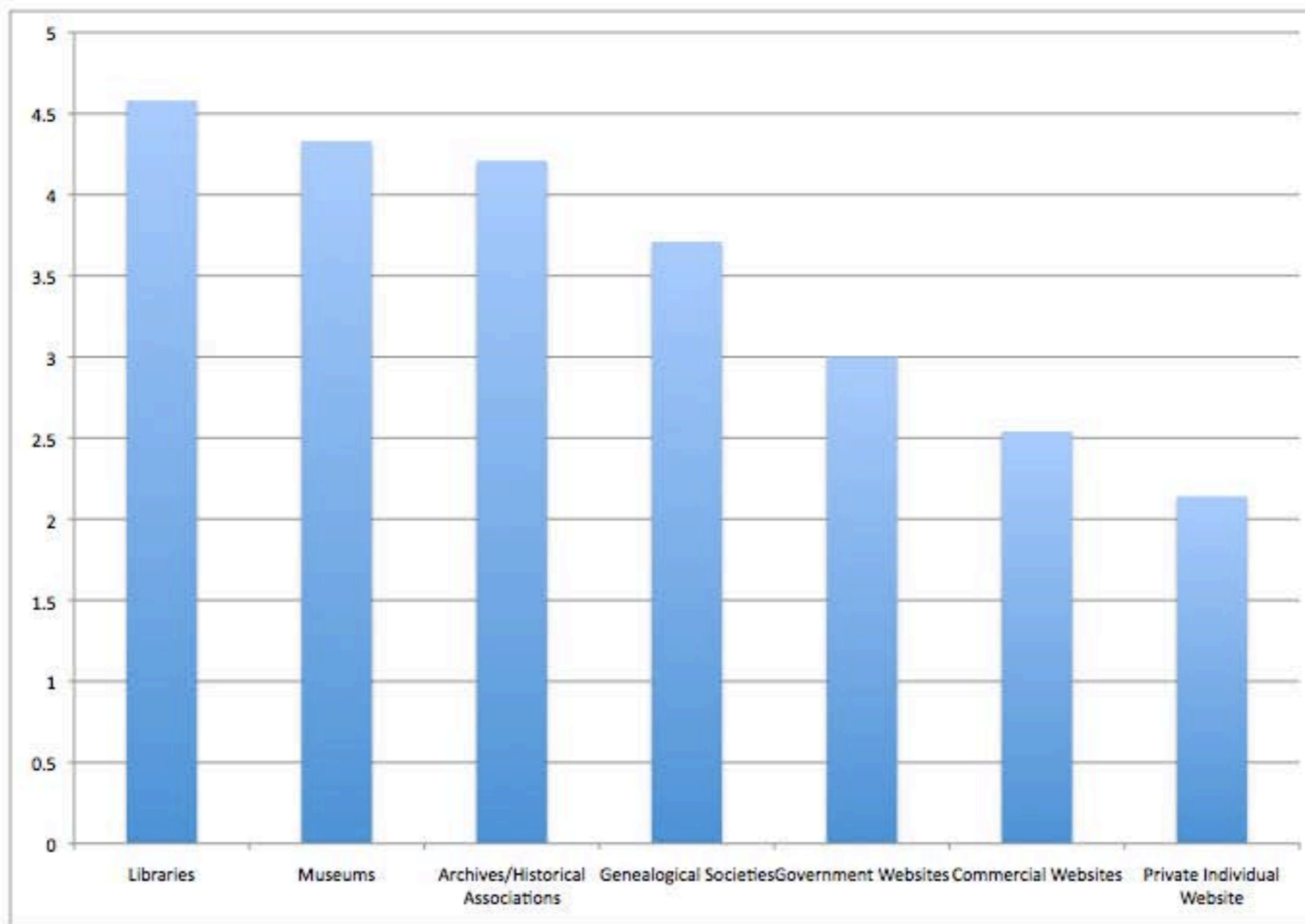


# Page Rank



# Trustworthy

1=Not at all trustworthy 5=Extremely trustworthy

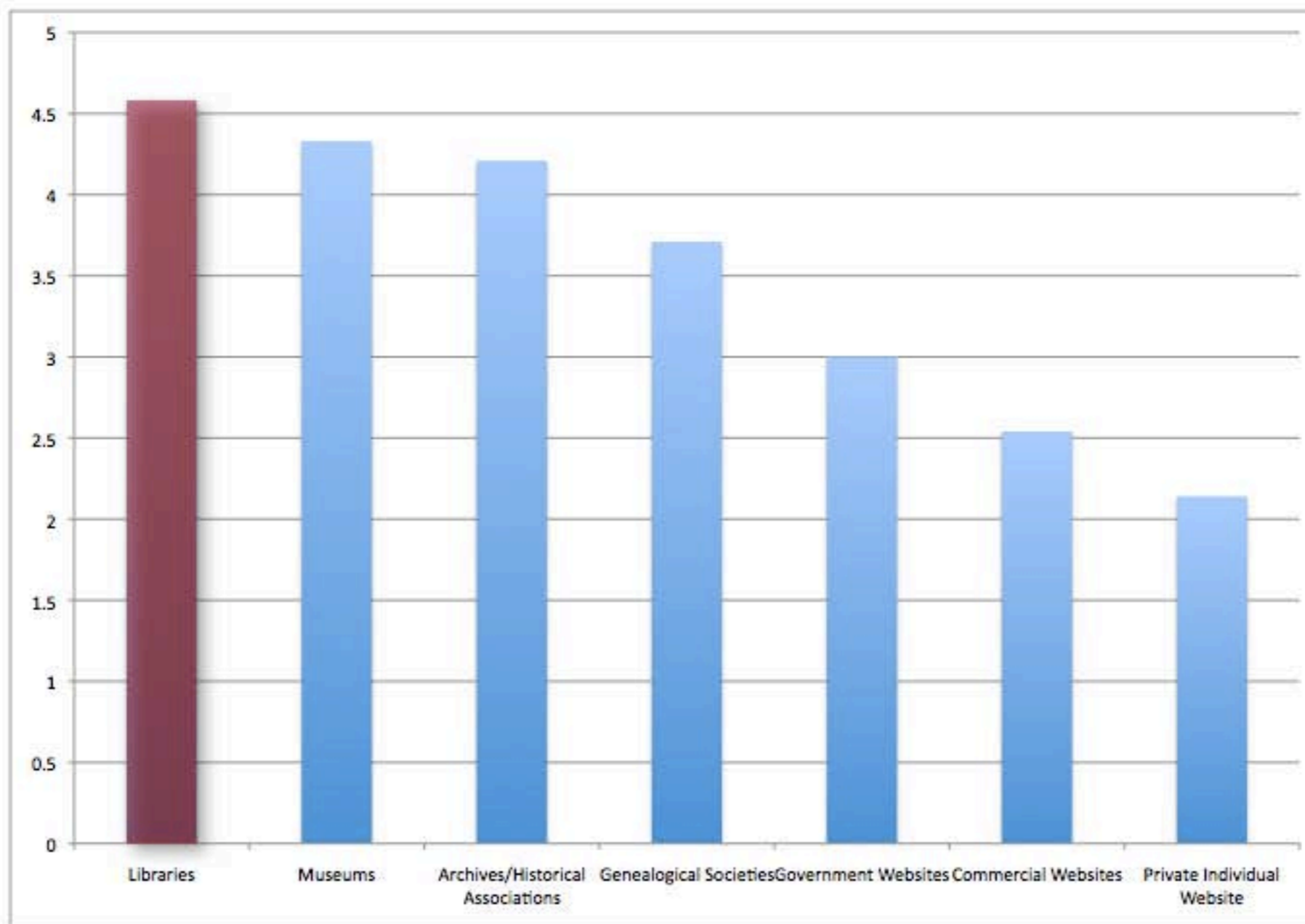


n=1,716

<http://interconnectionsreport.org/>

# Trustworthy

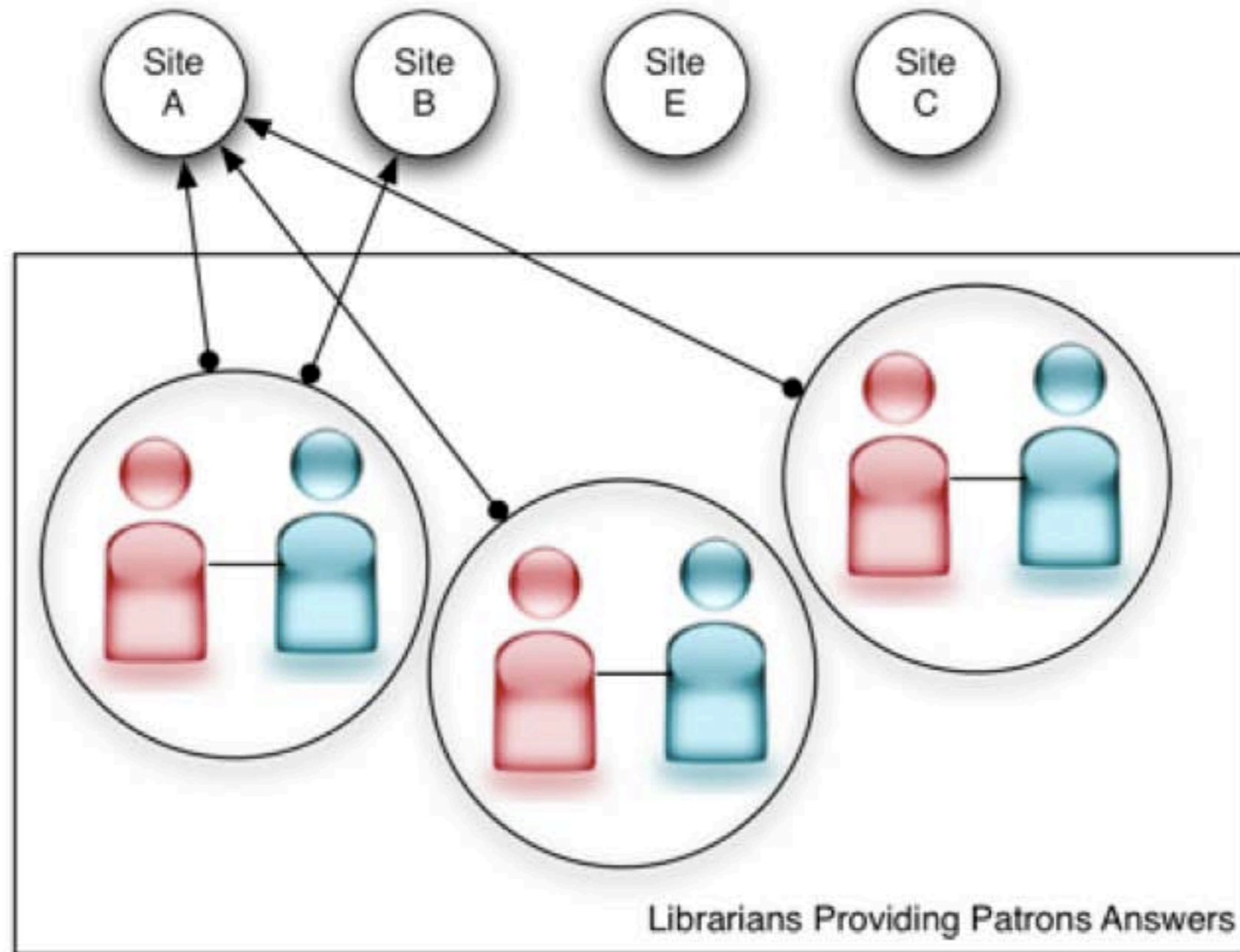
1=Not at all trustworthy 5=Extremely trustworthy



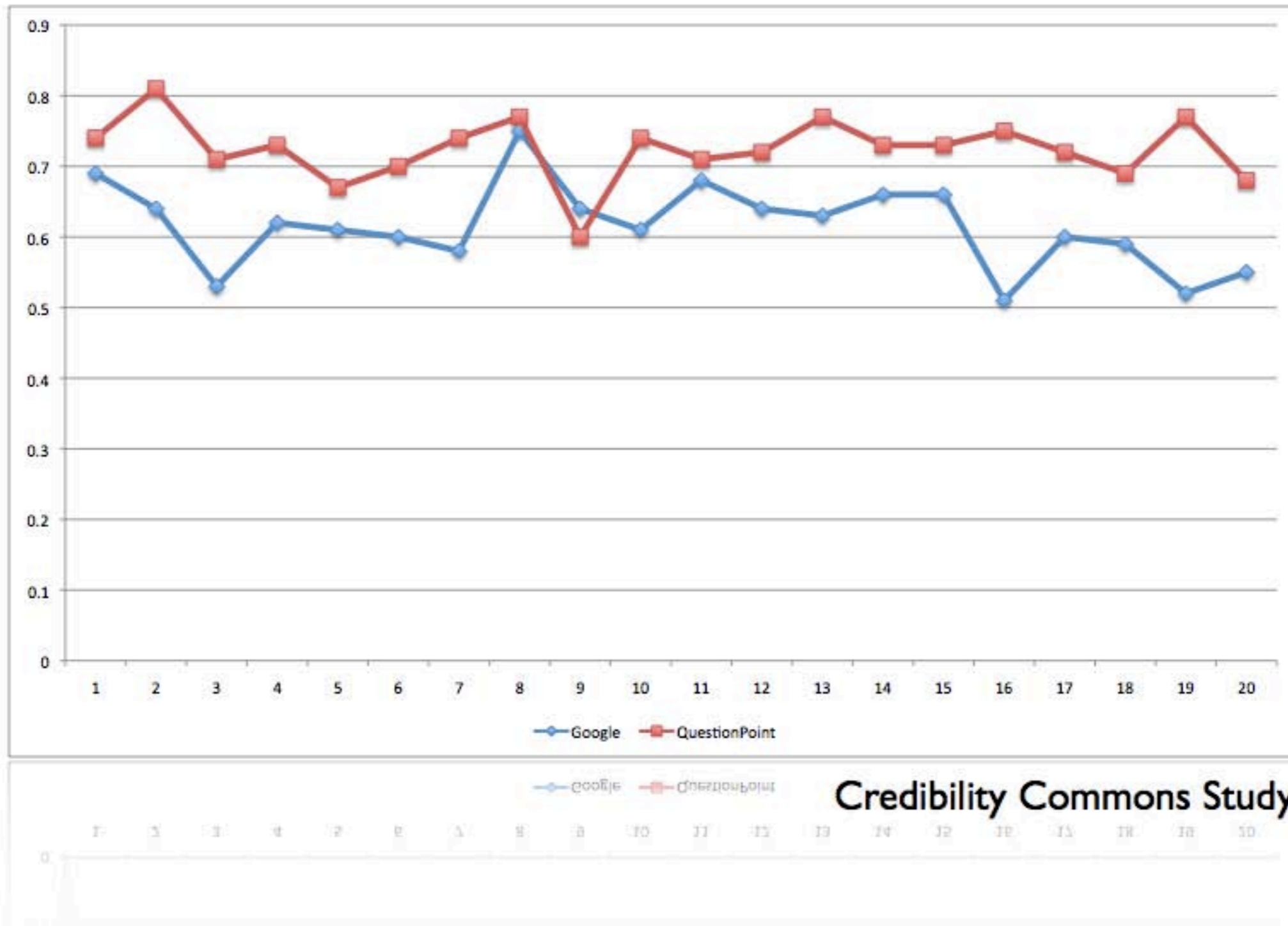
n=1,716

<http://interconnectionsreport.org/>

# Reference Weighting



# Commons Pre-Test



# Reference EXTRACT

Design Reference Only


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Sort by Categories Hits 1-20 (out of about 57 total matching pages):

- Art** **Lit-up frogs**  
 ... 12, 2001\* Albuquerque Lit-up frogs Q: Will frogs glow if they eat enough ... Lit-up frogs Copyright 2001, all rights reserved ...  
<http://www.wonderquest.com/frogs-glow.htm> (cached) (anchors) (more from www.wonderquest.com)  
 This site referenced 100 times by experts
- Business** **Some frogs freeze solid**  
 ... Some frogs freeze solid Copyright 2001, all ...  
<http://www.wonderquest.com/FrogsPolar.htm> (cached) (anchors) (more from www.wonderquest.com)  
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- Educational Management** **Earth & Sky : Browse Science Links - Animals - Frogs**  
 ... calls of local frogs, monitor frogs and toads in ... Sky : Browse Science Links - Animals - Frogs ...  
<http://www.earthsky.org/browse/index.php?s=Frogs&c=Animals> (cached) (anchors)  
 This site referenced 10 times by experts
- General Education** **WonderQuest: Harmless poison frogs, not so hot lightning, recycled humans**  
 ... WonderQuest: Harmless poison frogs, not so hot lightning, recycled ...  
<http://www.wonderquest.com/poison-frogs-not-so-hot-lightning-recycled-humans.htm> (cached) (anchors) (more from www.wonderquest.com)  
 This site referenced 100 times by experts
- General Reference** **Earth & Sky : Browse Science Links - FOR KIDS - Frogs**  
 ... Links - FOR KIDS - Frogs About Us Sponsors Help Contact ...  
<http://www.earthsky.org/browse/index.php?s=Frogs&c=FOR+KIDS> (cached) (anchors)
- Health** **Frogs' Hearing**  
 ... Column \* April 25, 2001\* Albuquerque Frogs' Hearing Q: What structures doesFrogs' Hearing Copyright 2001, all rights ...  
<http://www.wonderquest.com/FrogHearing.htm> (cached) (anchors) (more from www.wonderquest.com)  
 This site referenced 100 times by experts
- Language Arts / Linguistics** **Science & Technology at Scientific American.com: Ask the Experts: Biology: How do frogs survive wint**  
 ... the Experts: Biology: How do frogs survive winter? Why don't ...  
[http://www.sciam.com/askexpert\\_question.cfm?articleID=0009018D-6EDB-1C72-9EB7809EC588F2D7&catID=3&topicID=3](http://www.sciam.com/askexpert_question.cfm?articleID=0009018D-6EDB-1C72-9EB7809EC588F2D7&catID=3&topicID=3) (cached) (anchors)
- Mathematics** **Science & Technology at Scientific American.com: Faced with Danger, Embryonic Frogs Make a Break for**  
 ... com: Faced with Danger, Embryonic Frogs Make a Break ...  
<http://www.sciam.com/article.cfm?chanID=sa003&articleID=0004ACB2-D339-127B-933983414B7F0000> (cached) (anchors)
- Physical Education** **Scientific American: How do frogs survive winter? Why don't they freeze to death?**  
 ... Scientific American: How do frogs survive winter? Why don't ...  
[http://www.sciam.com/print\\_version.cfm?articleID=0009018D-6EDB-1C72-9EB7809EC588F2D7](http://www.sciam.com/print_version.cfm?articleID=0009018D-6EDB-1C72-9EB7809EC588F2D7) (cached) (anchors)
- Science**
- Social Studies**
- Vocational Education**

Expanded Preview (about 156 total matching pages)

## Books about Frogs & Toads

... Of the World Series) Frogs (First Discovery Book) Frogs and Toads and ... Books about Frogs ...  
[http://huckyardnature.net/amazon/frogs\\*.htm](http://huckyardnature.net/amazon/frogs*.htm)

## Exploratorium: Frogs

... Exploratorium: Frogs The Frogs exhibition ran at the ... Page. The two bottom frogs are both African Reed Frogs ...  
<http://exploratorium.edu/frogs/index.html>

## Cocoi & greenhouse frogs: alien Caribbean frogs in Hawaii

... Cocoi & greenhouse frogs: alien Caribbean frogs in Hawaii Cocoi ... people, environment Non-native Caribbean frogs ...  
<http://hear.org/AllienSpeciesInHawaii/species/frogs/index.html>

## Aristophanes, 1909-14, The Frogs, Vol. 8, Part 9, The Harvard Classics

... 1909-14, The Frogs, Vol. 8, Part 9, The ...  
<http://bartleby.com/59/>

## USGS Learning Web :: Project Ideas :: Frogwatch

... are More Than Skin-deep Frogs Forever Deformed Frogs in Minnesota Live ... animals and plants, Amphibians ...  
<http://interactive2.usgs.gov/learningweb/students/frogwatch.htm>

## The Undredella Coloring Mural

... frogs for smaller animals, frogs, and insects. If ...  
[http://www.janbeyn.com/mural\\_undredella/undredella\\_mural.htm](http://www.janbeyn.com/mural_undredella/undredella_mural.htm)

## Interesting animals

... worms and even other frogs. Some frogs are tiny but the ... was not so domestic. Adult frogs ...  
<http://slidyondknew.cd/animals/animals.htm>



# Librarians To Attempt To Outsmart Google

Ars Technica | Nate Anderson | November 11, 2008 03:06 PM



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The Reference Extract project hopes to turn all of this credibility research into something practical. The team consists of professors like Lankes and the OCLC, an academic technology organization that counts more than 60,000 (!) libraries among its members. The initial work is funded by the MacArthur Foundation. Their first goal is certainly ambitious: use the web sites that librarians suggest most often as the basis of a more credible search engine that can return reliable results.

Reference Extract already believes that it can best Google, even before work has begun in earnest. That's because it has already used librarian-recommended sites to populate a custom Google search engine. Simply doing this produced search results that testers ranked as "more credible" than searches run on the main Google index, even when the testers had no idea that one of the searches was based only on librarian-approved sites.

Lankes wants to expand on the experiment, building a new search engine architecture and mining that data. OCLC is providing access to its QuestionPoint database of user questions from around the world. Mining the collection of librarian-approved links, and the questions, Reference Extract will weight the results to favor sites that have been recommended by librarians.

## THE BLACKBERRY BOLD



ROLL OVER TO CATCH  
THE FASTEST DEVICE ON THE 3G NETWORK

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host Joe Scarborough let  
the f-word slip at 8:13  
EST...



Cheetah Girl Adrienne  
Bailon Nude Photo  
Internet

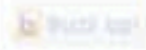
Several



## Librarians To Attempt To Outsmart Google

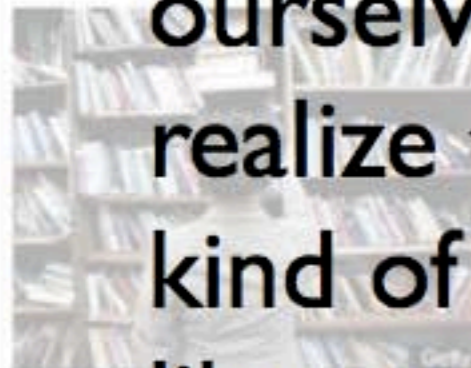
By Christopher M. Hooten | November 11, 2008 01:08 PM

More: Crowdsourced Search Engines, Crowdsourcing, Crowdsourcing Librarians, Crowdsourcing Technology, Google Librarians, Reference Extra Project, Business News



Bluz this article

practical. The team consists of professors like Lankes and the OCLC, an academic technology organization that has been working on a more credible search engine that can return reliable results. The team's work is funded by the MacArthur Foundation. Their first project is to create a more credible search engine that can return reliable results. The team's work is funded by the MacArthur Foundation. Their first project is to create a more credible search engine that can return reliable results.



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Lankes wants to expand on the experiment, building a new search engine architecture and mining the data. OCLC is providing access to its QuestionPoint service, which answers questions from around the world. Mining the collection of librarian-approved links and sites. Reference Extra Project will weight the results of whether sites are

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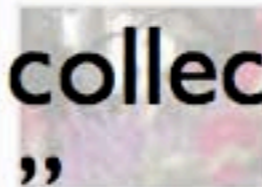
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### THE BLACKBERRY BOLD



ROLL OVER TO CATCH  
THE FASTEST DEVICE ON THE 3G NETWORK



Obama And Bush  
Meeting At White House

UPDATE on November  
10 at 7:15 PM EST: A  
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that Obama pushed...

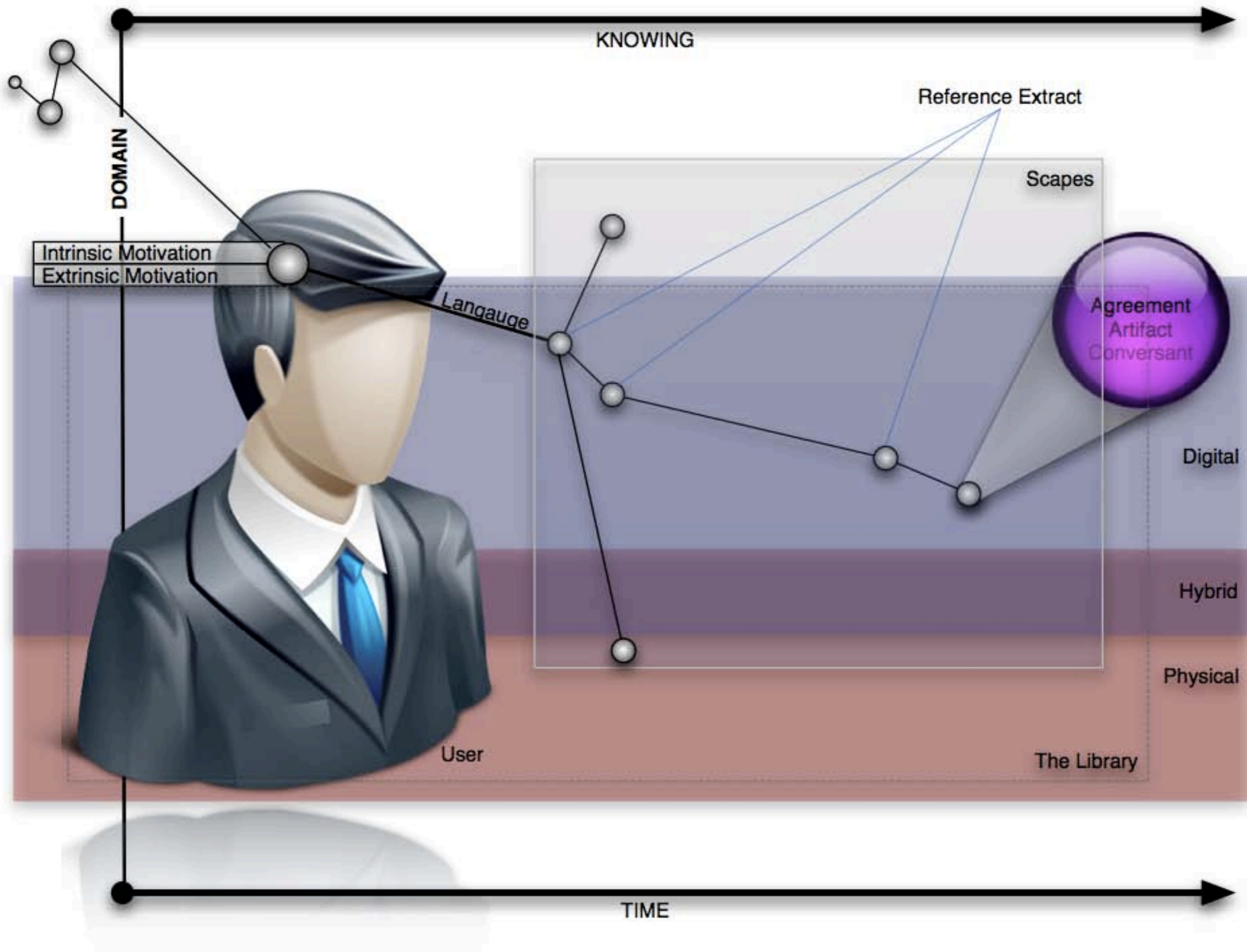


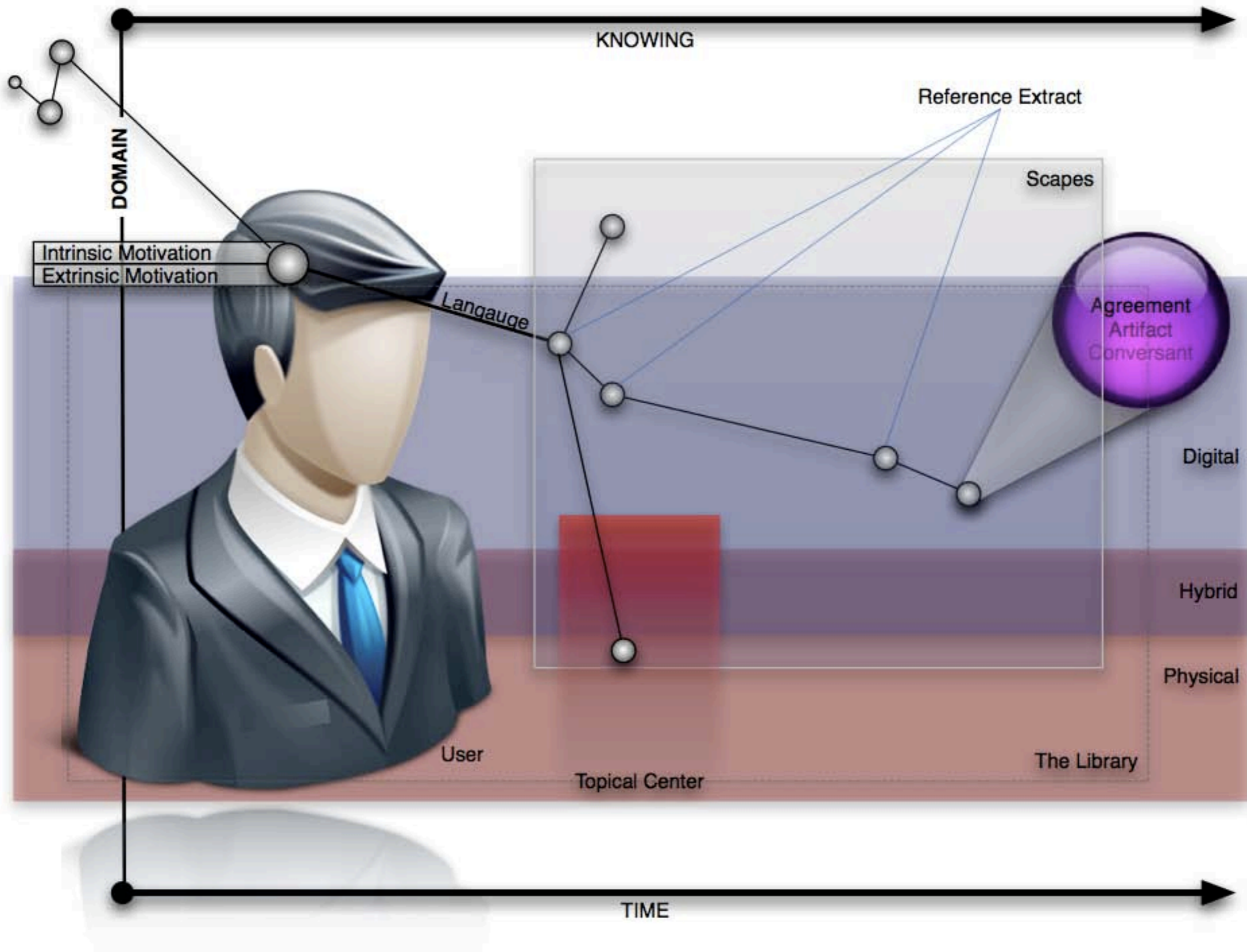
Joe Scarborough's  
"F" on "Up" Scares On  
Air (VIDEO)

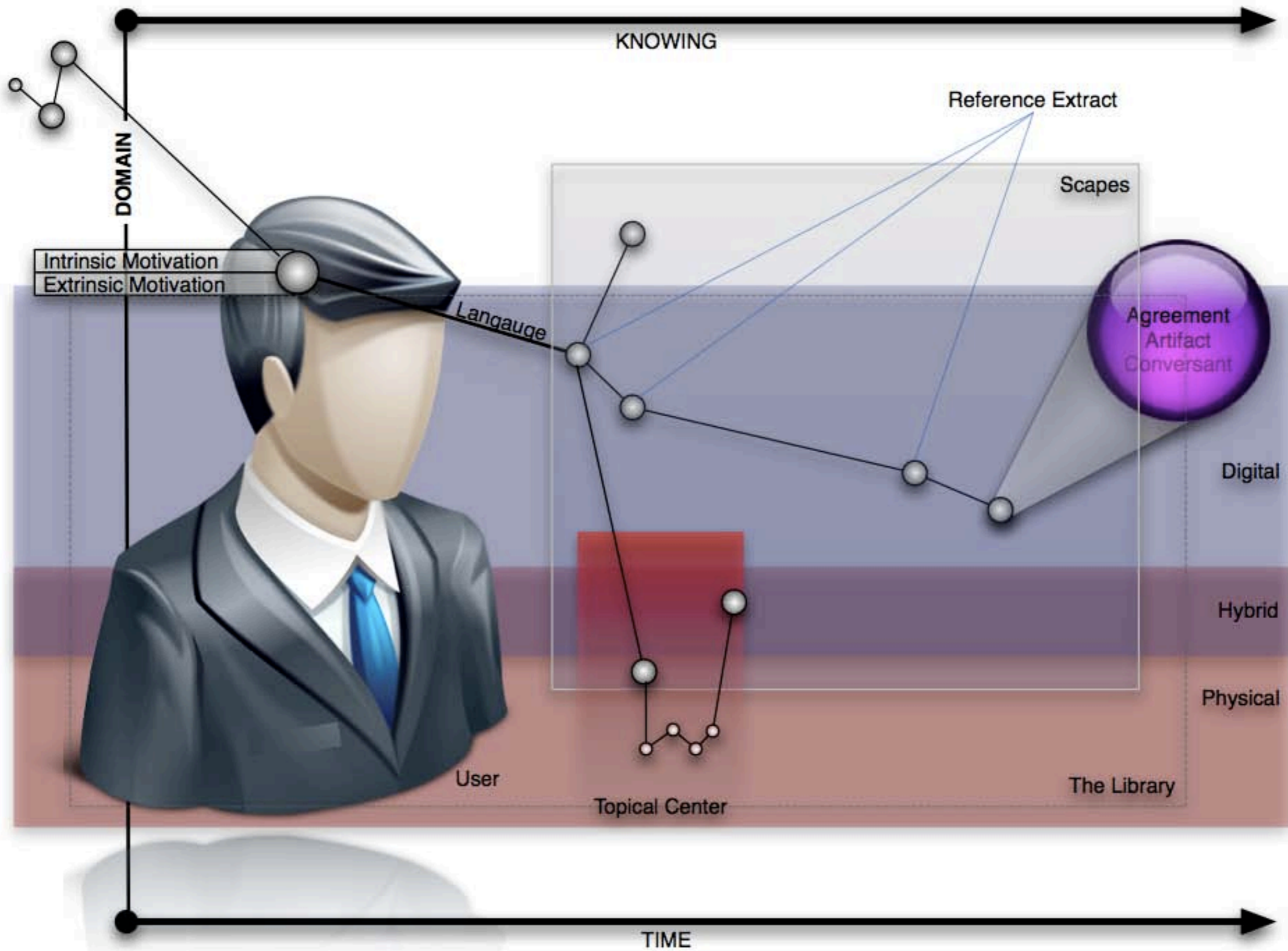
Whoops! "Morning Joe"  
host Joe Scarborough let  
the F-word slip at 8:13  
EST...

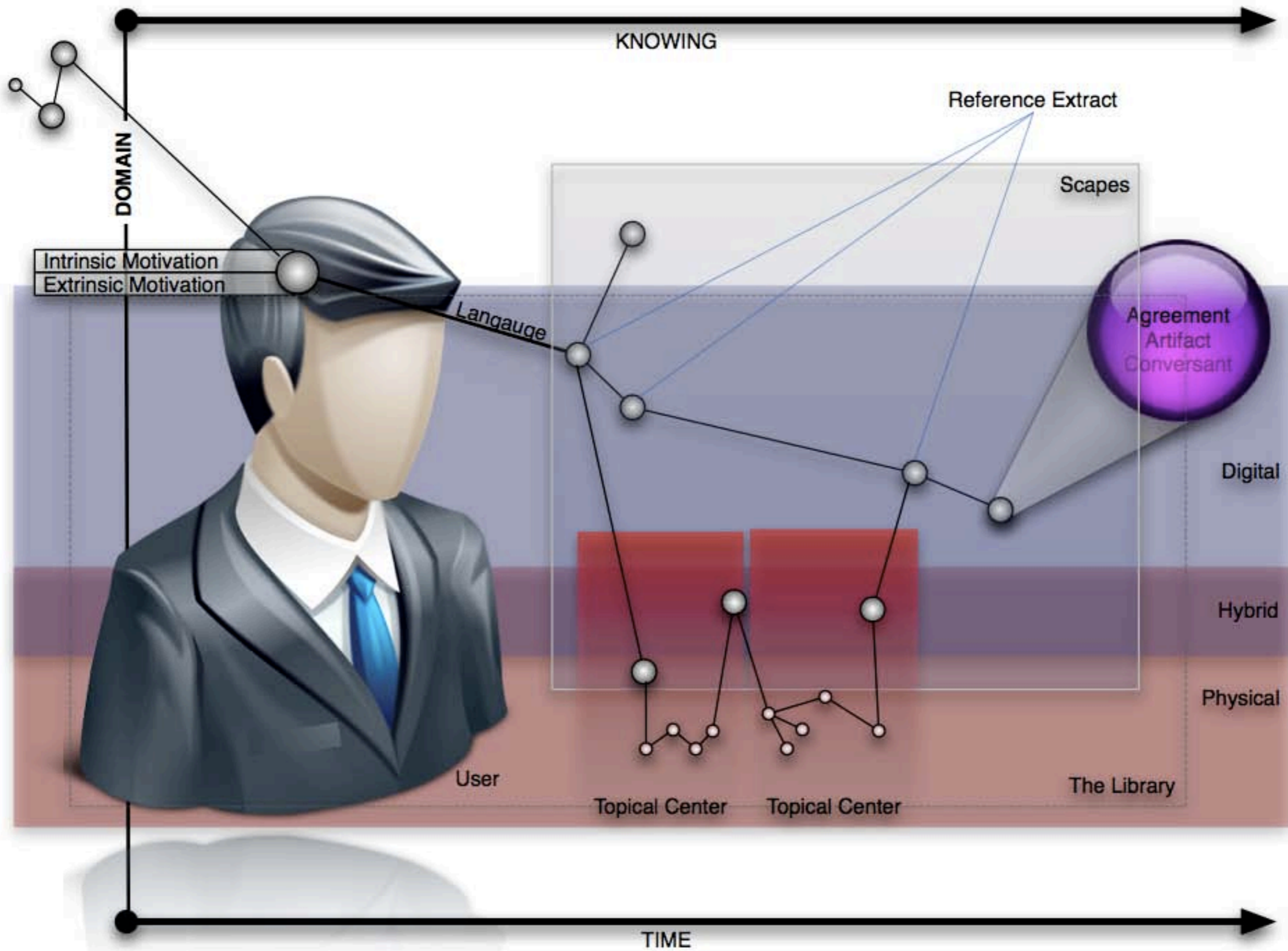


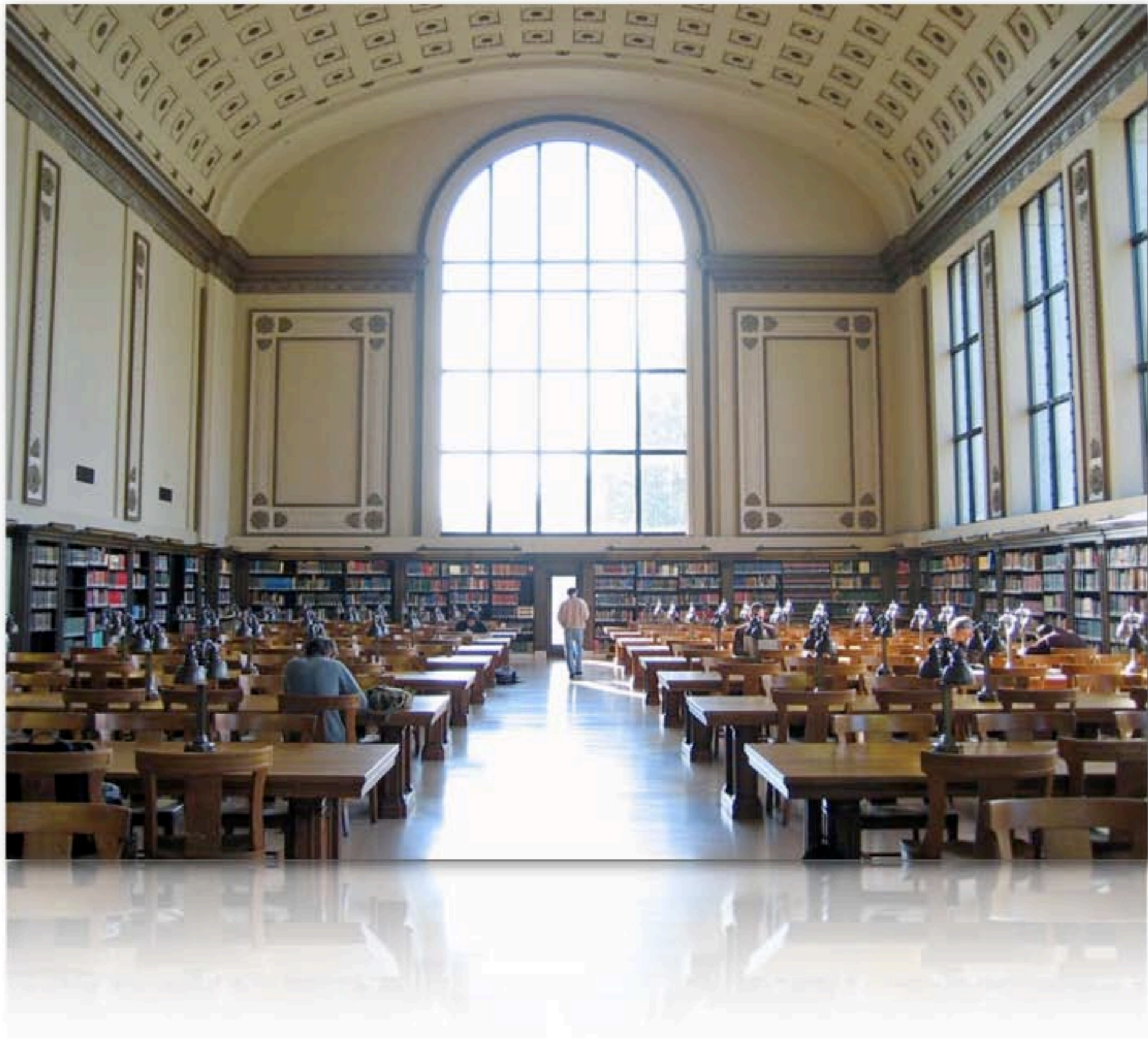
Cheerful Girl Admires  
Boston Made P...







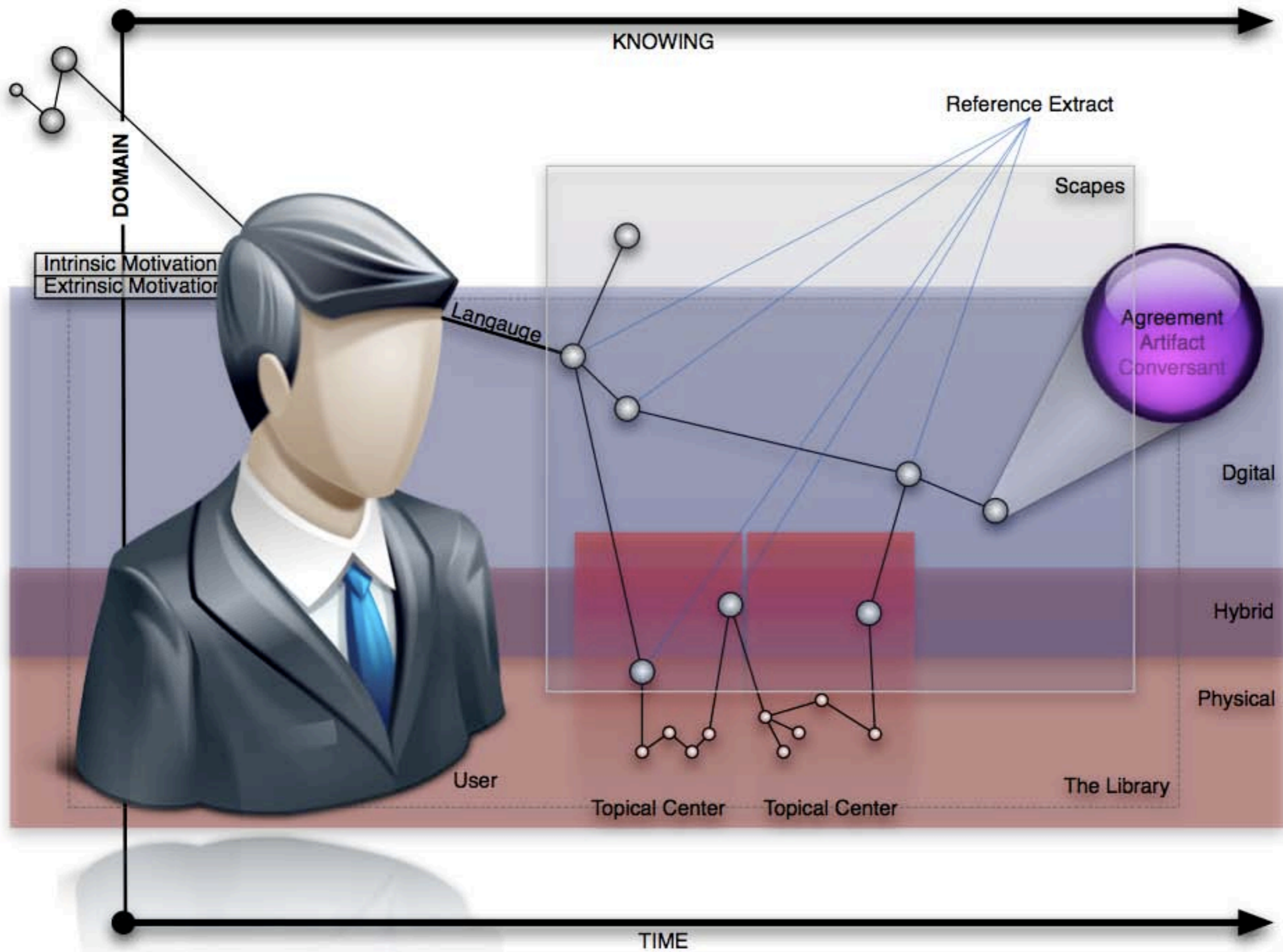




















Technology allows for Greater Participation and "User Systems"

If Libraries are in the Conversation Business, They are in the Conversation Business

User Systems Allow Users to Organize Artifacts (their own and others) in their own Scheme

The Schemes are an Authorship Process

Pask sets Out to Model Human Learning for Artificial Intelligence

The Library Must Facilitate the Knowledge Creation in Communities

Develops Conversation Theory - Knowledge is Created through Conversation

Knowledge Creation in the Music Area Means Making Music

Conversation Creates a Pressure for Participation

If the Library Wants to Support Musicians it Needs Two Grand Pianos on a Stage



A stylized illustration of a man with dark hair, wearing a dark suit jacket, a white shirt, and a blue tie. He is positioned in the background, with a semi-transparent white box overlaid on his chest area containing text.

# **The Mission of Libraries**

To Facilitate the Knowledge Creation of its  
Community through Conversation





**Libraries are  
PERFECTLY Situated**

# Libraries are PERFECTLY Situated

- We Function as Authorities NOT Authoritarians
  - We are Honest Brokers, Facilitators of Community Conversations
- We are Tool Builders
  - Need to Stop Riding the Waves, and Become Wave Machines
- We Provide the Connective Tissue to our Organizations

# We Must be Prepared

- Must be Radical Change Agents
  - THINK BIG!!!!
- Fix Our Innovation Economy
  - Library Vendors as Market Places Not Full Solutions
  - Don't Just Hire Innovators, Create and Nurture Them

# The Future is Everyone's Business

- “Gratitude never radicalized anybody” - Gloria Steinem
  - Don't be Loved to Death
  - Don't be a Spectator to Your Own Irrelevance
- “Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it's the only thing that ever has.” - Margaret Mead

Slides, Projects, and Opportunities  
[www.DavidLankes.org](http://www.DavidLankes.org)

