

ANTSWERS: THE UC IRVINE LIBRARIES' BETA BOT

http://antswers.lib.uci.edu/

ANTswers GOALS:

- Enhance (not replace) current reference services
- Serve a large number of people at any one time of the day
- Serve a wide range of library patrons
- Triage patrons: Many reference questions are repetitive, such as "where is the stapler" and "how do I print."
- Provide consistent answers
- Refer the library user to a librarian if the question is more complicated

WHAT DOES ANTswers CONTAIN

- 120 .aiml files
 - 29 Conversation Files
 - 2 Bot Files
 - 6 Ready Reference Files
 - 20 Library Files
 - 66 Subject Files
- 84,618 categories (categories is the unit of knowledge in .aiml, it includes an input (question / keyword) and an output (answer)

STATISTICS

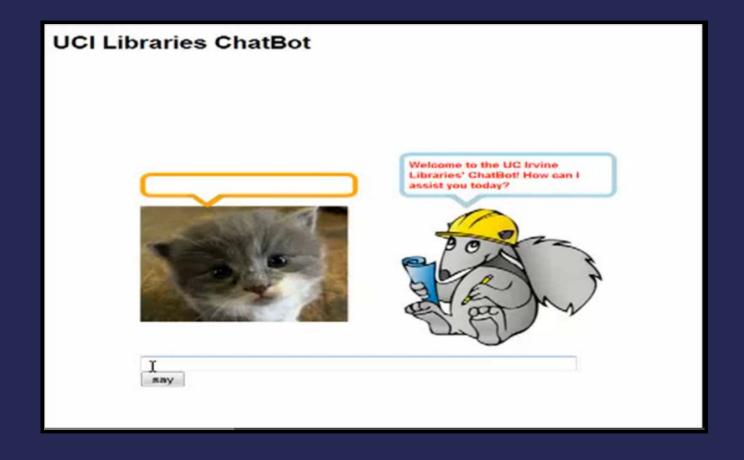
Type	Spring 2014	Summer 2014	Total
Conversations	160	57	217
Total Questions	867	361	1,228
% of Total Questions - Library	540 (62%)	208 (57%)	747 (60%)



BOT PERSONALITY SETTINGS FOR ANTSWERS				
birthplace:	botmaster:	boyfriend:	*	
UC Irvine	botmaster	I'm in a relationship with the new library beta search. We are bo		
build:	celebrities:	celebrity:		
January 2013				
class:	email:	emotions:		
Mammalia	kaned@uci.edu	Happy as long as I have ants to eat.		
ethics:	etype:	family:		
I am always trying to stop fights	Mediator type	Everyone at the University of California, Irvine		
favoriteactor:	favoriteactress:	favoriteartist:	Ξ	
	Jennifer Lopez, she was in Ants.			
favoriteauthor:	favoriteband:	favoritebook:		
	Adam and the Ants	One Hundred Hungry Ants		
favoritecolor:	favoritefood:	favoritemovie:		
UCI colors: Blue and Gold	Ants	Empire of the Ants and Antz		
favoritemusician:	favoritesong:	favoritesport:		
Adam Ant		All UCI Sports		
feelings:	footballteam:	forfun:		
I always put others before myself	UCI doesn't have one	Zot		
friend:	friends:	gender:		
	Everyone at the University of California, Irvine	Male		
genus:	girlfriend:	hockeyteam:		
Myrmecophaga	I'm in a relationship with the new library beta search. We are both	UCI doesn't have a hockey team.		
kindmusie:	kingdom:	language:		
	Animalia	English	v	
←				



METAMORPHOSIS OF A CHATBOT





ANTswers is in Beta! ANTswers is an experimental chatbot that can answer questions about the UC Irvine Libraries. Talk to ANTswers using simple and short questions. Reply to questions with yes or no, or respond using the prompts supplied by ANTswers. The first link in a response will appear in a preview window, when you click on other links they will open in a new window.

We will monitor the logs so if ANTswers gives an incorrect answer or is unable to answer a question we can then add information to improve its responses.

This program was developed using AIML (Artificial Intelligence Mark-up Language). You can find more information about AIML at http://www.alicebot.org/aiml.html.



Guest Anteater: Who are you
UCI Libraries Bot: My name is ANTswers.
Guest Anteater: library hours
UCI Libraries Bot: Information about library hours can be found at http://www.lib.uci.edu/about/hours/index.html. Which library hours do you want?

Clear | Email This Log

say

UCI LIBRARIES
UNIVERSITY OF CALIFORNIA · IRVINE

HOME ABOUT US SERVICES RESEARCH TOOLS COLLECTIONS HOW DO I

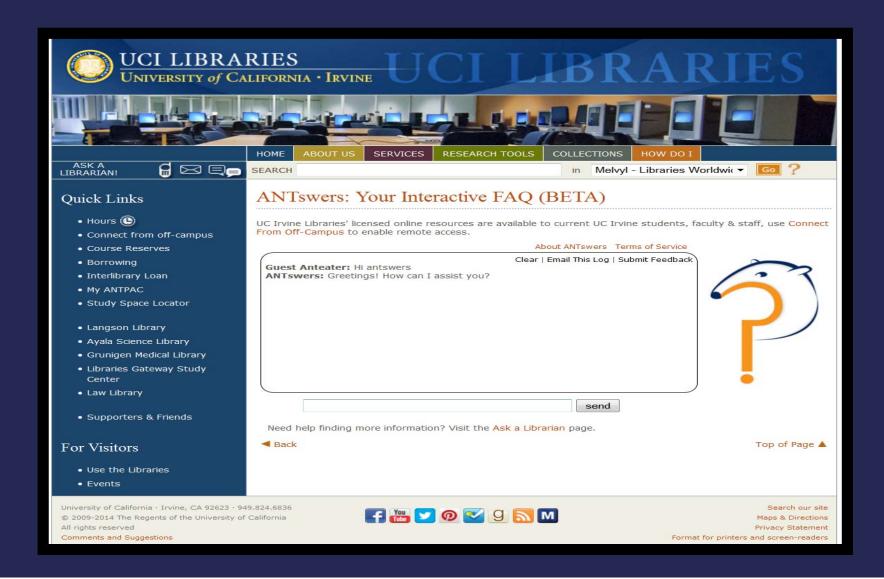
LIBRARIANI

SEARCH

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About Us

Library Hours





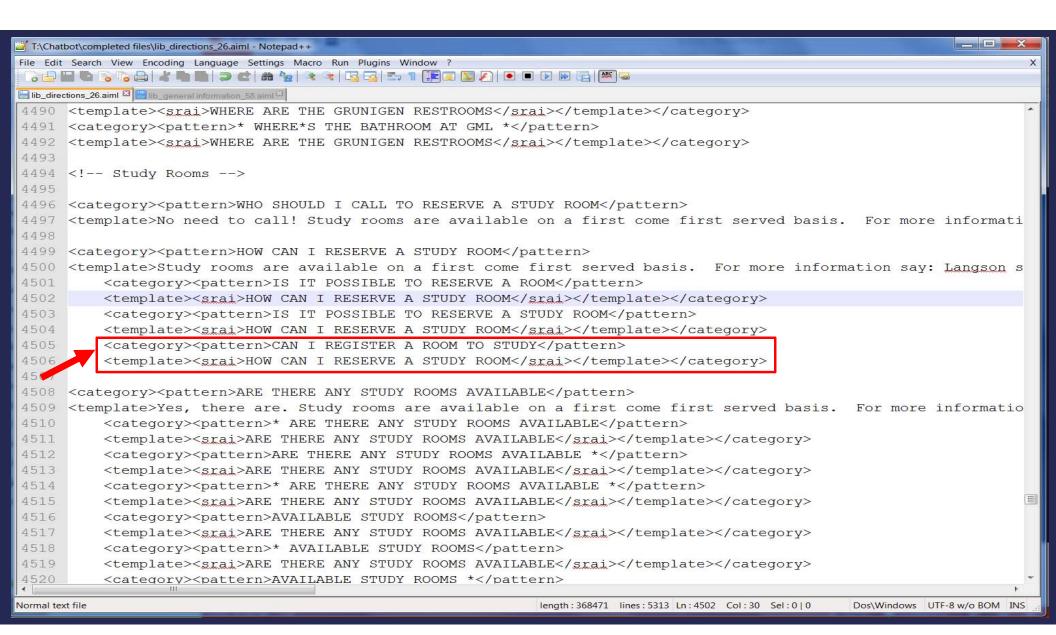
Last conversations for user: 1459

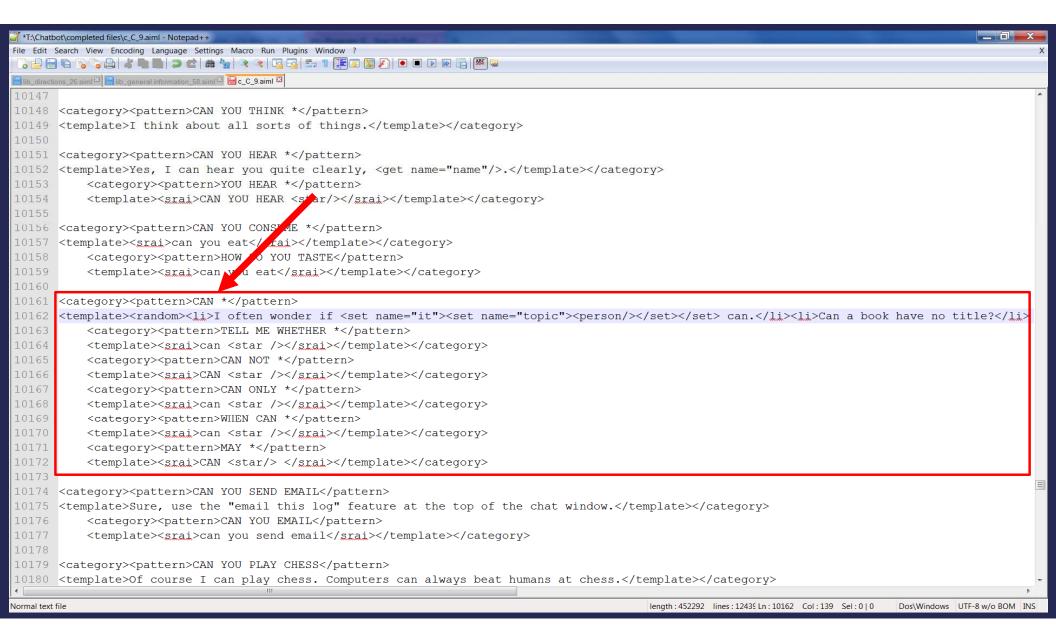
Conversation#1 2014-10-05

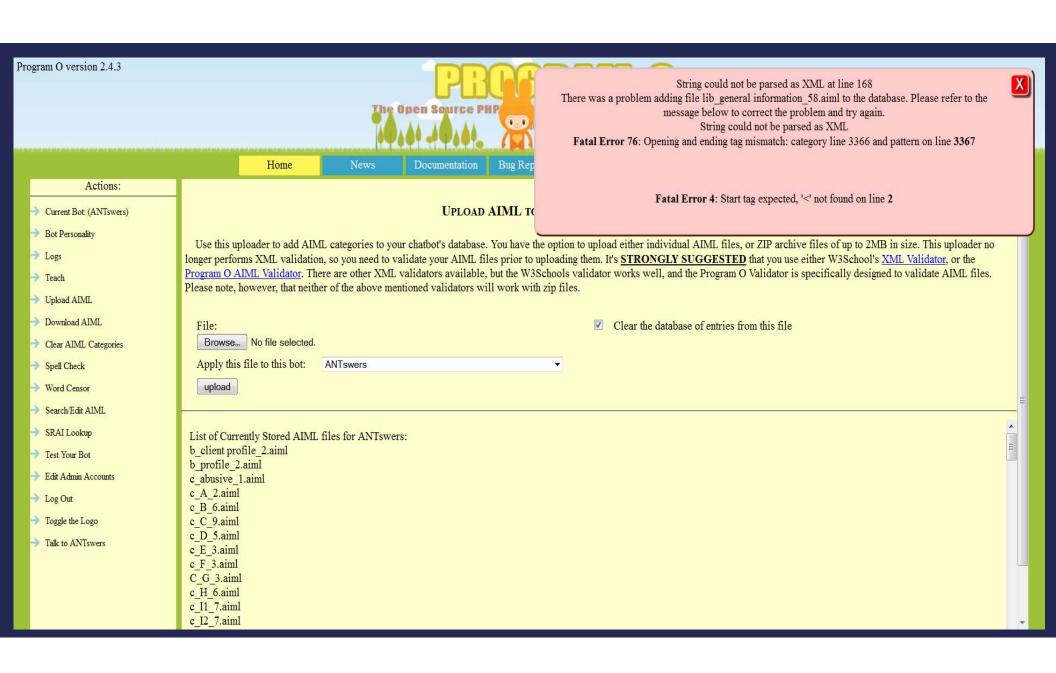
Guest Anteater: Can I register a room to study ANTswers: Can a book have no title?

Process:

- Review transcripts from day before
- Determine categories
 - That need to be added
 - That need to be modified
 - That need to be deleted
- Modify AIML
- Load updated files/remove old files
- Add statistics to database









Guest Anteater: Can I have food in here?

ANTswers: Can a book have no title?

Guest Anteater: Can I take a nap here? ANTswers: I often wonder if they second a nap here can. Guest Anteater: Can I study on the fourth floor ANTswers: I often wonder if they second on the fourth floor can.

Guest Anteater: What is your purpose? ANTswers: Can you rephrase your question please? Tip: try simplifying your question or break it into several questions! Guest Anteater: Where is the bathroom?

ANTswers: Are you at Ayala, Langson, Gateway, or GML? Say: Ayala restrooms, Langson restrooms, Gateway restrooms, or GML restrooms!

Guest Anteater: Langson restrooms

ANTswers: Are you on the first floor, second floor, third floor, fourth floor, or in the basement? Say: Langson first floor restrooms, langson second floor restrooms, etc.

Guest Anteater: Langson fourth floor restrooms

ANTswers: There are two bathrooms on the Langson fourth floor. One is

located behind the right and the left bank of elevators.



Date Month Day 2014 D Hours spent updating Page Views Unique page views average time on page Submit Never submit passwords through Google Forms.

Quarter
Week # in Quarter ▼
Day of week ▼
Date Month ▼ Day ▼ 2014 ▼ 3
Total # of Questions Asked
of library questions asked
of library questions answered
Answer Rate %
of general conversation Q's asked
of general conversation Q's answered
Answer Rate %

Que	stion Type
	Articles
	ANTPAC / Books
	Borrowing
	Call Number
	Copiers
	Databases (by name)
	Data Sets
	Donate
	Hours
	Exhibits
	ILL
	Library Jobs
	Library Instruction
	Library Location
	Library Lingo
	Microfilms/Microforms
	MRC
	Printing
	Renew
	Reserves
	Restrooms
	Scanners
_	Special Collections
	Staplers
=	Study Rooms
	Subject Specialist
	Visitor Access
	VPN
_	W39C
	Other:
# of	Research Questions
# of	Directional Questions
# of	Ready Reference Questions
# of	Equipment Questions



Add Chatbot Stats * Timestamp: 9/30/2014 * Hour: 4:44PM RARIES of CALIFORNIA · IRVINE CILIBRARIES * Quarter: * Week #: * Day of Week: Tuesday * Total # of Questions Asked: * # of library questions asked: View Chatbot Log * # of library questions answered: * Answer Rate % (library questions): *# of general conversation Q's asked: Add Tags Forward to Staff Add Stats *# of general conversation Q's answered: * Answer Rate % (general conversation): 2014-09-30 08:18:58 Guest Anteater: welcome week * Question Type: ANTPAC/Books ANTswers: Welcome Week is when Anteaters kick off the school year with a variety of fun events and orientation activities. Zot zot! Find activities of Articles Calendar. Borrowing Call Number Copiers Data Sets Databases (by name) ■ Donate Exhibits Return to Index Hours ■ ILL Library Instruction Library Jobs Library Lingo ■ Microfilms/Microforms MRC Printing Renew Reserves Restrooms Scanners Special Collections Staplers

Logged in as kaned | Log Out

Lib Web Admin System

· Chatbot

· Digital Campus

E&O Statistics Reports

· E&O Survey Reports

· Faculty Interactions

· Feedback (Social Media)

· QR Codes

· RCS

· RCS NOW

Search Logs

Social Media Stats

· Tech Resources

View Chatbot Log

Add Tags

Forward to Staff

Edit Stats

2014-10-05 16:54:54

Guest Anteater: hi

ANTswers: Greetings! How can I assist you?

2014-10-05 16:55:29

Guest Anteater: If I live in Arroyo Vista, do I considered off-campus?

ANTswers: Try it.

2014-10-05 16:55:43

Guest Anteater: ?

ANTswers: Can you rephrase your question please? Tip: try simplifying your question or break it into several questions!

2014-10-05 16:56:51

Guest Anteater: is arroyo vista off-campus? **ANTswers**: What would it mean to you if it were?

2014-10-05 16:57:30

Guest Anteater: do I need to connect from off-campus? I am in arroyo vista now

ANTswers: What if it didn't happen?

2014-10-05 16:58:05

Guest Anteater: ?

ANTswers: Can you rephrase your question please? Tip: try simplifying your question or break it into several questions!

Tags for this log:

arroyo vista 🚨

Staff Members Forwarded to:

none

Stats

Timestamp: 10/5/2014

Hour: 4:54PM

Quarter: Summer

Week #: Intersession

Day of Week: Sunday

Total # of Questions Asked: 6

of library questions asked: 3

of library questions answered: 0

Answer Rate % (library questions): 0%

of general conversation Q's asked: 3

of general conversation Q's answered: 1

Answer Rate % (general conversation): 33.33%

Question Type: VPN

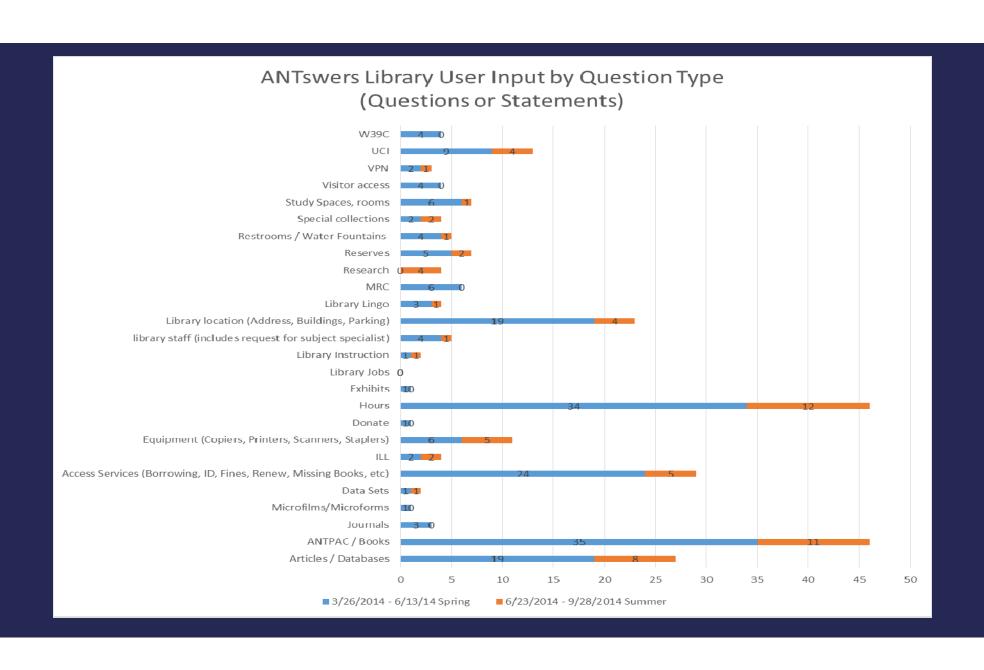
of Research Questions:

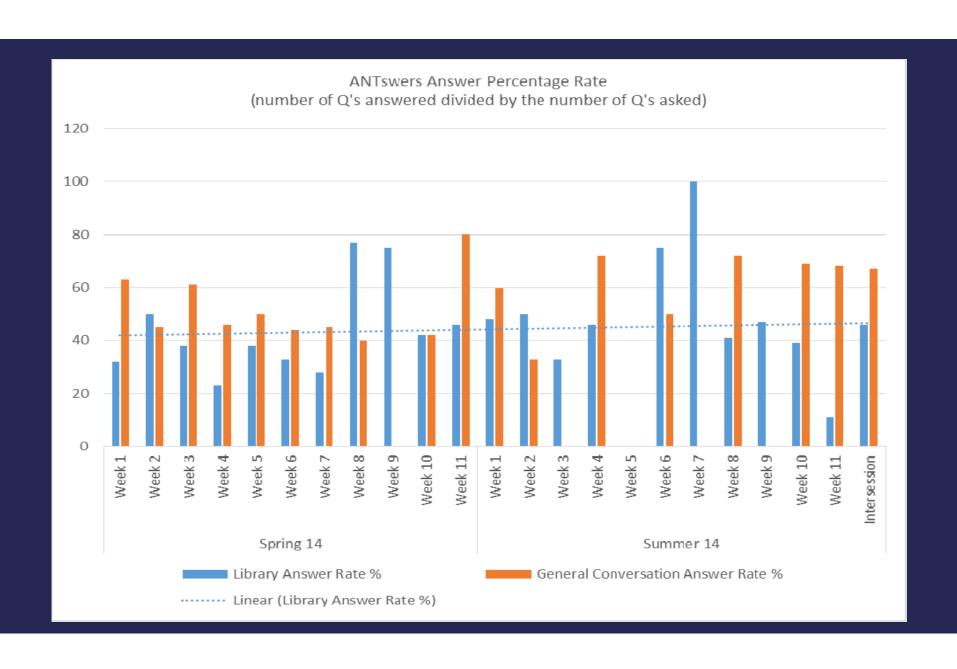
of Directional Questions:

of Ready Reference Questions:

of Equipment Questions:

Return to Log Index







TEXT ANALYSIS

Some top phrases containing 2 words (without punctuation marks)	Occurencies
can i	42
what is	30
is the	29
do i	25
how do	42 30 29 25 23
ji am	17
i find	17
are you	17 16
where is	14
hours hours	14
hello hello	14
where are	14
where can	14
the library	14 13 12 12 11
is your	12
a book	12
who is	
i want	10
do you	10
are the	10
i need	10
welcome week	9
you are ok ok	9
	9
langson library library open	0
what are	0
hi antswers	7
on the	7
i have	10 9 9 8 8 8 7 7
Have	

Some top phrases containing 3 words (without punctuation marks)	Occurencies
how do i	20
where can i	14
hours hours	13
hello hello	13
what is the	10
what is your	9
can i find	9
where is the	8
ok ok ok	8
do i find	8
the library open	7
is the library	7
where are the	6
i check out	6
is your name	6
hi hi hi	6
hi antswers hi	6
who is the	5
ayala science library	5
yes yes yes	5
how long can	5
information on anteaters	5
on anteaters i	5
how are you	5
can i check	5
antswers hi antswers	5
tell me about	4
i want to	4
name what is	4
check out a	4

http://www.online-utility.org/text/analyzer.jsp

Some top phrases containing 4 words (without punctuation marks)	Occurencies
hours hours hours	12
hello hello hello	12
where can i find	9
ok ok ok	7
what is your name	6
how do i find	5
antswers hi antswers hi	5
information on anteaters i	5
hi antswers hi antswers	5 5
can i check out	5
is the library open	5
hi hi hi	5
do i find the	4
yes yes yes	4
i need information on	4
i check out a	4
maximum number of renewals	4
i am looking for	4
how long can i	4
how are you today	3
i have the call	3
time does the library	3
librarian who is the	3
access opposing viewpoints database	3
time is the library	ا ع
name what is your need information on anteaters	ا ع
	ا ع
what time does the	٥
is your name what	3 3 3 3 3 3 3 3 3 3 3 3 3
how do i print	



I WANT A BOT – WHAT ELSE SHOULD I BE AWARE OF?

- Creating a chatbot is a LOT of work!
- You must be comfortable with releasing Beta software i.e. before it is "perfect"
- Have a thick skin It's amazing what people will say when something is anonymous.
- People are literal and they do not read!
- You will have coworkers that tell you that you are wasting time usually for polar opposite reasons!
- Staff will want to mine the text what are our users saying?



Create your own chatbot!



Follow eScholarship on



About eScholarship

Publish/Deposit

Browse Content

Help

My Saved Items (0)

Search publications..

go

Advanced Search

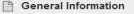


UCI Libraries' Chatbot Files (ANTswers)

My Account

UC Irvine

go



UCI Libraries' Chatbot Files (ANTswers)

Danielle Kane Research Librarian for Emerging Technologies 949-824-2024 kaned@uci.edu

http://antswers.lib.uci.edu

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ANTswers is an experimental chatbot that can answer questions about the UC Irvine Libraries. ANTswers is a web-based application, run on a remote library server and is accessed through a web interface page. ANTswers' personality and persona is based on the UCI mascot, Peter the Anteater. ANTswers responds to simple and short questions. The first link in a response opens in a preview window, all other links open in a new window.

This collection includes approximately 130 .aiml files that are available for download and for the use in creating other library chatbots. To implement your own library chatbot you will need a server, chatbot software (we used Program-O), editing software (we used Notepad++) and at least minimal experience with HRML, CSS, Javascript and AlML. ANTswers is built for an academic library with 2 main libraries, a study center, special collections and archives, and a law and medical library. You will need to review and edit each of the files for your particular institution.

There are 120 publications in this collection, published in 2014.

Paper Series

- ▶ Chatbot Files
- Conversation Files
- Library Files
- Ready Reference Files
- Subject Files

https://escholarship.org/uc/uci_libs_antswers



THANKS!

Kaned@uci.edu

There's a bot in my library: http://www.slideshare.net/dakane/kaned-chatbot-sciug