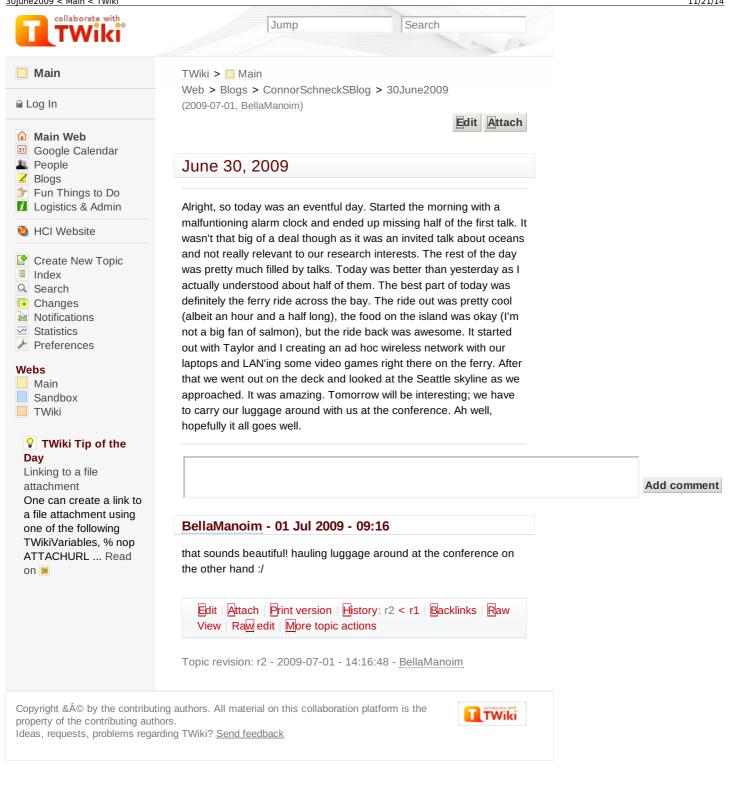
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Wiki Tip of the Day

Custom rendered bullets The RenderListPlugin can render bulleted lists in a variety of different ways. Use % nop RENDERLIST ... Read on Jump

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June 29, 2009

Well well, we are officially in Seattle. Our flight was fairly uneventful. Dang I am such a nerd. I spent half the time listening to the air traffic controller radio chatter on the on board headset. Everything was fairly smooth. The shuttle got us to our hotel just fine, and we checked in with no problem. Then at about 2 am on Sunday morning Ugonna opens his bag only to realize he grabbed the wrong bag.

Now, I'm not angry at Ugonna, that was an honest mistake. It looked just like his bag. No, I've got a beef with the United Airlines baggage claim personnel. So, after Ugonna dropped the bombshell, we ended up calling a cab to take us back to the airport (of course Ugonna had been calling the airport and airline before hand with no answer). Apparently at 2:30 am the baggage claim area of the Seatac airport is completely devoid of life. So we stuck around in the area until about 4:30 am when someone from United finally showed up and helped Ugonna get his bag back. During this time I tried to sleep, but they REALLY design those airport chairs so you can't sleep in them. We ended up getting back to the hotel at about 5 am (another cab, ended up costing about \$100 total for both rides). Taylor and I got about 3 hours of sleep and Ugonna opted to just not sleep at all. But at least it was a learning experience, like for example I learned that I get really cranky when I don't sleep.

The conference itself has been going pretty well. We spent Sunday (what kind of a conference starts on a Sunday?) and this morning in workshops. I really enjoyed Professor Stoytchev and Jivko's talks. The rest of the presentations were interesting as well, but the best stuff were the discussions we had after each session. It was really amazing listening to what all the people in the field think about robotics. Although one topic really dismayed me. Most of the people in our workshop (it was on robotic manipulation and there were about 50) thought that robot's of the future would be preprogrammed with 3D models of objects and that's how they would know how to use them. WHAT ?! How does that make ANY sense? Okay, so first of all it's not even possible to program every object in existence so that a robot could interact with objects successfully. Second, objects have a tendency to break and deform in so many various ways that there is no way to program for all of those. As well, people (younger children namely) are constantly taking existing objects and making new, completely different ones. The point of all this is that a robot needs to be able to learn and adapt to objects. Sure you could use a database of objects to bootstrap its learning, but in the end it still needs to learn. As the conversation went on, I was ready to chime in and say something when Professor Stoytchev spoke up and set them all straight.

This afternoon we listened to talks about various robotics projects. The introduction talk was about the navigation techniques of fruit flies and how they might apply to flying robots. The other talks were very, very dense. There was one even where I had absolutely no idea what even the general idea of what the speaker was talking about. It turns out that out of all the talks today, only one was even remotely related to our research area. I guess that's the difference between general robotics and developmental robotics. Developmental focuses on learning, whereas general does just about everything. I really, really

	prefer the developmental, the kinematics and inertial matrices a lot of the people talked about are crazy hard to use. Tomorrow looks like all talks again. Hopefully its not too boring (today kinda was). But tomorrow evening is going to be amazing. We are getting ferried out to an island in the harbor to have a very fancy dinner and on the way back will be able to see the Seattle skyline at night. I'm psyched. I'll report on it tomorrow.	
		Add comment
	ZayiraJordan - 09 Jul 2009 - 10:22	
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June 26, 2009

So, if my update didn't give it away yesterday, our meeting the Professor Stoytchev really stressed me out. Don't get me wrong, I think he's a very great guy and I enjoy working with him, but I swear he's going to give me a heart attack. We decided to change the project to make it more feasible in our time limit. We took out vision, so now we're just using audio and proprioception, and we're going to use almost the exact same method as Jivko did in his paper. Yesterday after the meeting, I was so stressed I broke my stress ball and had pink, sticky goo all over. This, of course, didn't help my stress levels, but the walk/bus ride back to Freddy to change my pants (they were covered in goo) was actually very relaxing. I feel much better about this project and I think we have a higher chance of finishing. This morning I went over to the lab and spent the entire time troubleshooting a problem with serial port communication with the hand, only to realize that unplugging it and plugging it back in fixed it (face palm). Ah well. We've decided that I'm going to handle coding in C for the robot's movements and getting the proprioceptive data and Ugonna and Taylor are going to implement the audio stuff and the learning algorithms. I'll probably head back to the lab after iournal club and work some more with the robot.

Oh, and by the way, does anybody know where I can get a new stress ball?

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Topic revision: r1 - 2009-06-26 - 18:05:42 - ConnorSchenck

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Wiki Tip of the Day

Linking to a file attachment One can create a link to a file attachment using one of the following TWikiVariables, % nop ATTACHURL ... Read on Jump

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June 25, 2009

Since yesterday we've accomplished some. Ugonna and I spend about an hour and a half in the lab scripting the robot's actions. While we were doing that, Taylor was experimenting with optical flow. As it turns out, optical flow will NOT work for what we want (it just isn't quite optimized for our specifications) so we're going to use motion history instead. We have a meeting with Professor Stoytchev and our grad students in a few minutes, and hopefully we get approval for the specifics we've figured out and we don't get sent back to the drawing board. I looked at the schedule and we only have 3.5 weeks left to finish, and if we keep getting delayed we will definitely not finish. While implementing the optimal solution would be great, I feel if we keep trying to make what we plan to do better, we'll never actually get a chance to do it. I'm really hoping Professor Stoytchev doesn't decide that we need to completely revamp everything, because if he does we will not finish. Period.

Update:

 $E = M^M - G + C/T$

where E is the entropy of the project, M is the number of meetings with your faculty advisor, G is the number of meetings with your graduate advisors, C is your initial confidence factor, and T is the time remaining until the deadline. This gives us

P = 1/E

where P is the probability of finishing on time. AGHHHHHHHH! where's my stress ball?



BellaManoim - 26 Jun 2009 - 10:21

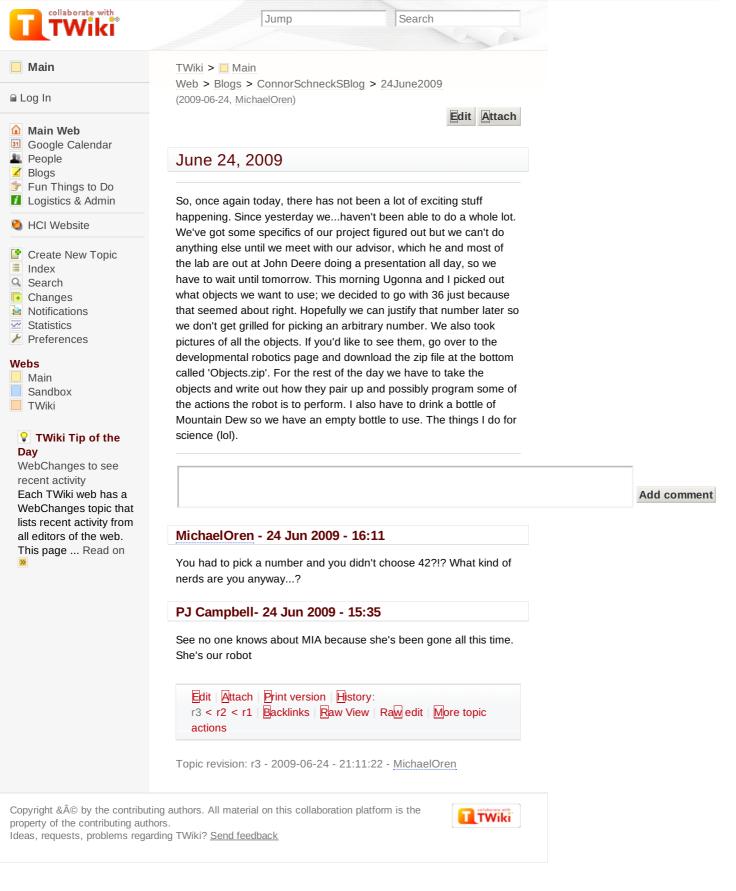
pink stress ball gooooo

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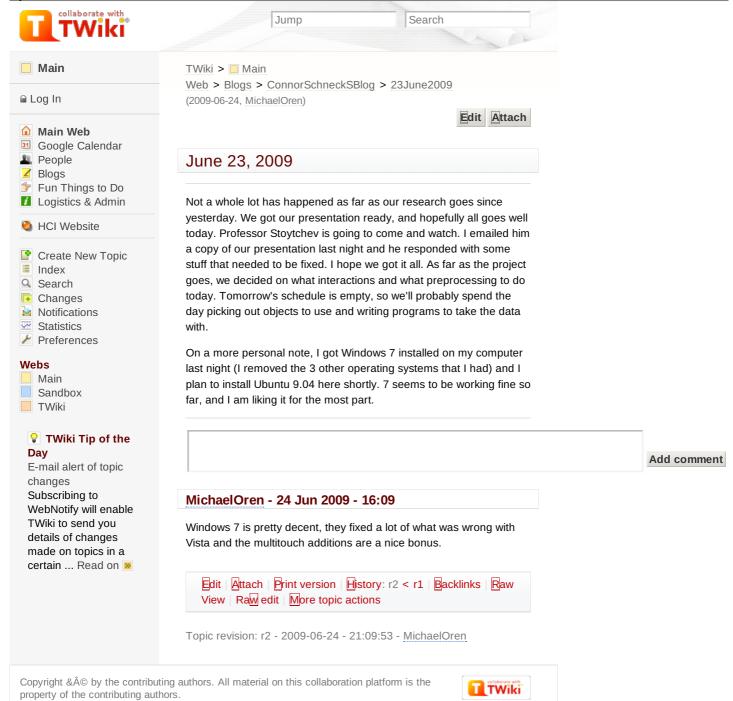
Topic revision: r4 - 2009-06-26 - 15:21:31 - BellaManoim

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Wiki Tip of the Day

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Web > Blogs > ConnorSchneckSBlog > 22June2009 (2009-06-22, ConnorSchenck)

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June 22, 2009

So I had a busy weekend. Went up to my Grandparent's place in northeast Iowa for their 50th anniversary. They have a small patch of land with some woods out in the middle of the country. Dang, don't you just love that new cow smell? (rofl) Just to illustrate how crazy lowa weather is, on the way back it was perfectly sunny, then out of no where it started pouring so hard visibility was reduced to almost zero. After about 5 minutes of hydroplaning down the interstate at 75 mph (with very white knuckles) it just suddenly stopped and everything was bright and sunny again. I have to say, that has to be one of the biggest wtf moments with weather I have ever seen.

On a more serious note, I'm glad the tv crew is finished. That was a lot of stress and it really distracted from what we needed to do. Although I am kinda bummed we didn't really get to show off our project, but it didn't work very well either. Although, now we can get back to our main project, I just hope that they don't throw us anymore mini projects because they are really getting in the way. I think we only have a few things left to decide and then we can get to collecting data. Since it's all going to be processed offline anyways, we can hold off on a lot of the more critical decisions (such as what learning algorithm to use) until after we've collected data. I'm optimistic that we may be able to start data collection by the end of the week (though probably we won't).

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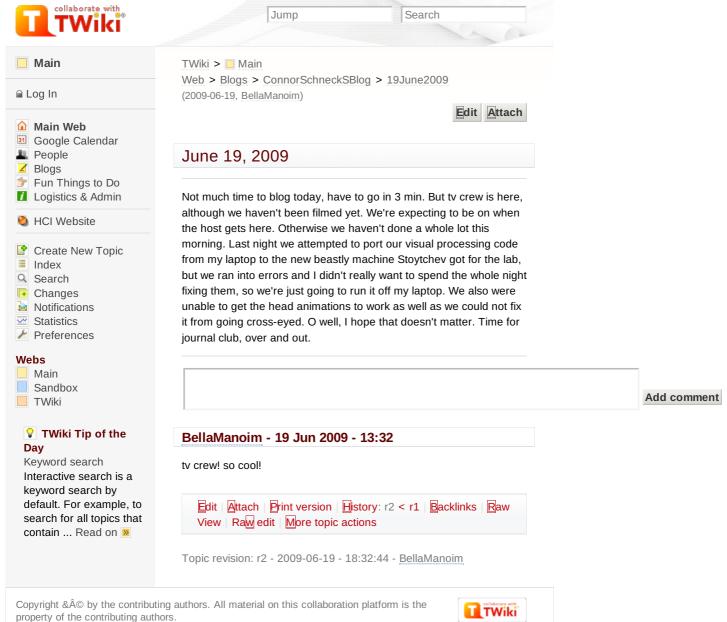
Topic revision: r1 - 2009-06-22 - 17:56:42 - ConnorSchenck

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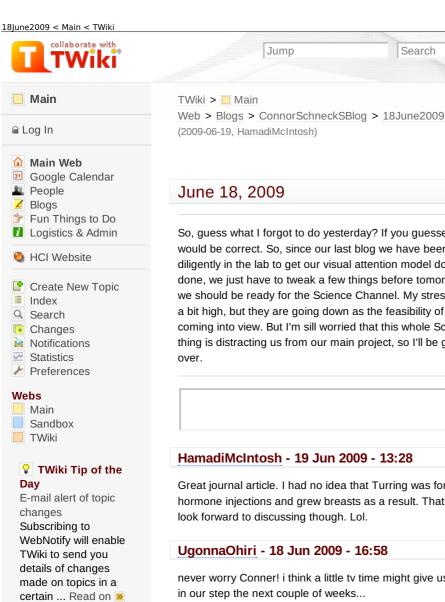
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Edit Attach So, guess what I forgot to do yesterday? If you guessed blog, you would be correct. So, since our last blog we have been working diligently in the lab to get our visual attention model done. It is almost done, we just have to tweak a few things before tomorrow and then we should be ready for the Science Channel. My stress levels are still a bit high, but they are going down as the feasibility of this project is coming into view. But I'm sill worried that this whole Science Channel thing is distracting us from our main project, so I'll be glad when it's HamadiMcIntosh - 19 Jun 2009 - 13:28 Great journal article. I had no idea that Turring was forced to undergo hormone injections and grew breasts as a result. That isn't what I UgonnaOhiri - 18 Jun 2009 - 16:58 never worry Conner! i think a little tv time might give us extra "umph"

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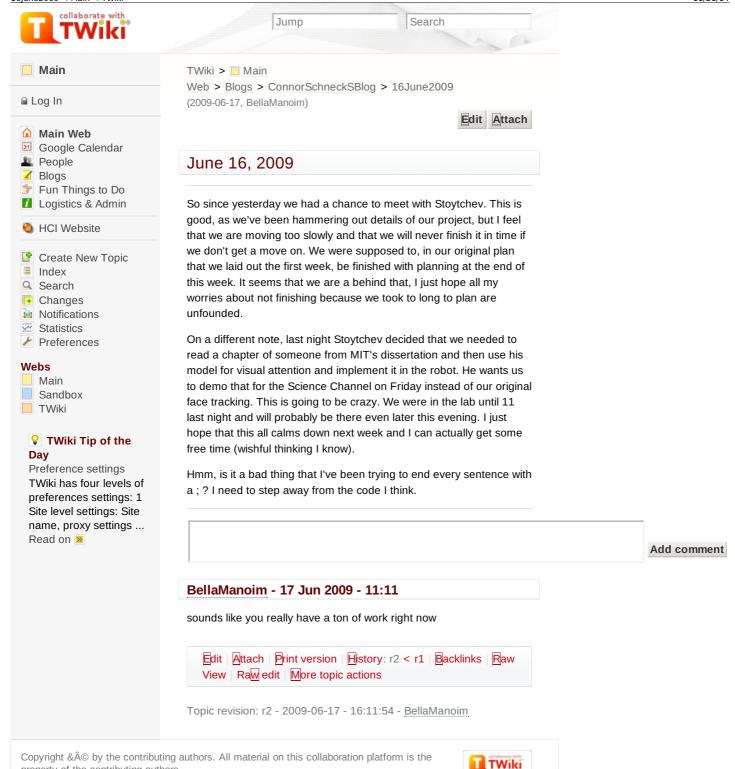
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Topic revision: r3 - 2009-06-19 - 18:28:53 - HamadiMcIntosh

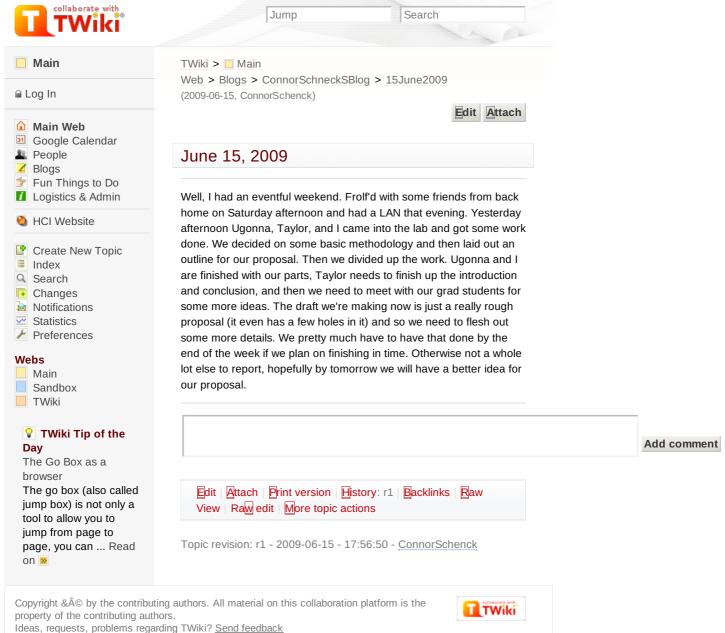
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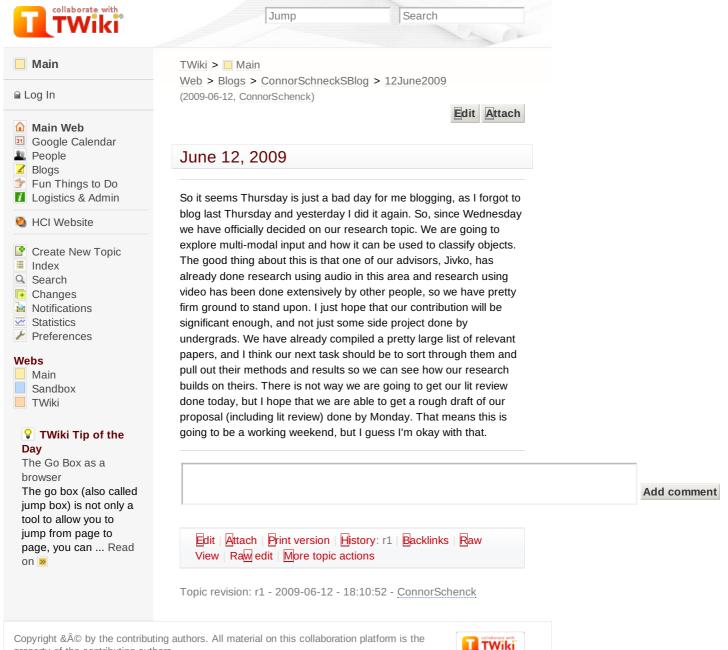
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Wiki Tip of the Day

Inline search To embed a search in a topic, use the % nop SEARCH{ parameters }% TWiki Variable. The search variable ... Read on TWiki > Main Web > Blogs > ConnorSchneckSBlog > 10June2009 (2009-06-12, ConnorSchenck)

June 10, 2009

Jump

Alright, so last night we narrowed it down to four ideas for a project:

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- 1. Multi-modal self-association
- 2. Multi-modal object recognition
- 3. Self-discover using an HTM
- 4. Object tracking using an HTM

The real debate between the ideas has come down to one issue: to use an HTM or not to use an HTM, that is the question. It is my strong opinion that, as much as I'd like to, an HTM is way too ambitious for us to accomplish in one summer. It is my opinion that we choose one of the first two ideas listed and save the last ones for future work. We have been and will continue to discuss this today, and I hope that by the end we can settle on one or two ideas. I think that I have successfully swayed Taylor and Ugonna to my point of view. Jivko is currently collecting papers that apply to the first two topics and will be sending them to us tonight. Him and the other two grad students (Matt Miller is not an advisor but has experience with HTM's and works in the lab) share my opinion. Taylor seems disappointed, but I think he agrees with my logic that if we try to build an HTM in a summer, we will end up scaling it back so much that it will not be what we originally intended and, more importantly, not publishable. That is just about all for now, hopefully tomorrow I can say for sure what our topic will be.

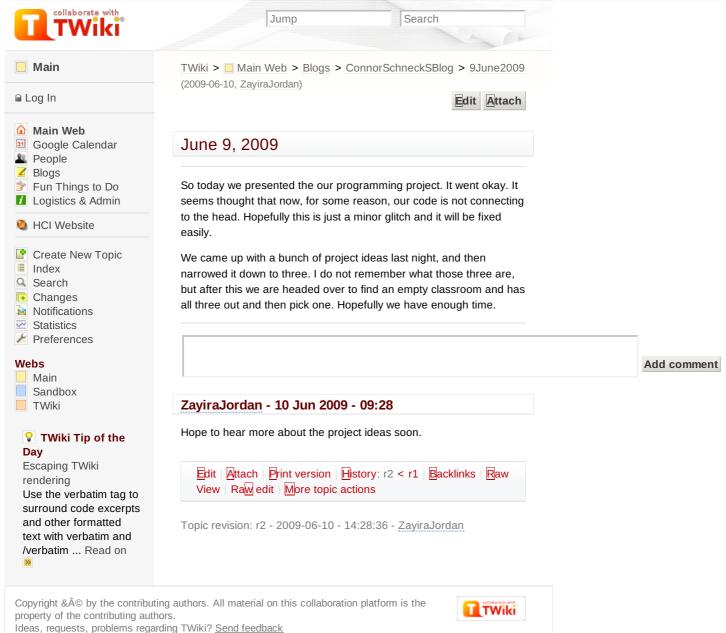
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ConnorSchenck - 12 Jun 2009 - 13:03

An HTM is a hierarchical temporal memory. Essentially it is a group of nodes arranged in a pyramid fashion. The nodes at the bottom take in the raw input data and pass data to the nodes aove them etc. Every node operates in the same manner: they first classify the patterns they see spatially and then classify them temporally and pass that up to the node above them. A good example of how this works is if you imagine that you are a node. You get different pieces of colored paper from the nodes below you. None of them are the exact same color as the others. But you can still classify them. You put them in buckets labeled "red" "green" "yellow" etc, and none of the pieces of paper in the red bucket are the exact same shade of red, but they are all red. After that you start to notice patterns in the order of colors you get. You might notice, for example, RRGY for red red green yellow. You notice that red is usually followed by another red, which is followed by green, and finally followed by yellow. So, over time, you start to notice many patterns such as this. Now, when you create something to hand to the node above you, you hand up a piece of paper saying the name of the pattern such as "RRGY" and the node above does the same thing with that that you just did.. That is the essence of an HTM. There is also a prediction factor, but I won't get into that now.

ZayiraJordan - 11 Jun 2009 - 15:24

0June2009 < Main < TWiki	yeah, what is an HTM?
	MinaChoi - 10 Jun 2009 - 16:01
	what is HTM?
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	Topic revision: r4 - 2009-06-12 - 18:04:53 - ConnorSchenck



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June 5, 2009

Jump

Well, as you can see, apparently I forgot to blog yesterday. We had a research team meeting in the lab and then we just started working and I completely forgot. Oh well.

So, a lot of progress has been made since the last time I blogged. I did indeed get my function sending move commands to work. It turns out that for some reason new commands would overwrite old commands, so I ended up changing it so that it only sent one command at a time. Since then we've gotten all the basics of the three classes we've been using to communicate with the head working. We incorporated Taylor's face tracking algorithm in, fine tuned it, and now the head can track heads fairly well. Although, due to the low resolution on the cameras, we can only track faces no more than 7 feet away. The really neat thing is that not only does it track faces, but it also shows emotion and searches. When it sees a face, it moves to a happy expression, after losing the face it becomes sad, and if it can't require the face for a certain amount of time, it becomes worried. As well, when it loses a face it begins to search around for a face in a semi-random fashion. I think we pretty much have the algorithm working now up to the point where we want it to.

I have also been working on fleshing out the code for the head more. Professor Stoytchev is going to end up making it a general library for everyone who wants to use the head, so I've been trying to make it as powerful and easy to use as possible. For example, in the face tracking version of the head code, the program must specify the serial ports to connect to for the boards to the head (there are 2). This can be quite difficult as these may change depending on where the boards are plugged in, and if they switch that would as well cause problems. So I've been working on an auto connect function that queries the operating system for a list of available serial ports and tries to connect to each. Last night I spend a significant amount of time working on it. I hit a brick wall when I got the function working and connecting properly, but for some reason it screwed up standard in. After it would connect, my program would no longer take input from standard in, it would just skip it. I spent about two hours last night banging my head against the wall, to no avail. Then Cody G. came in real quick to shut off his computer, and ended up staying for an hour until we fixed it. It turns out that when I opened a serial port to check to see if it had the head on it, since I was using a temporary variable for it, the actual variable for the port would never get initialized if the port was unable to open. But regardless, my code would then close the serial port, whether it opened or not. As it turns out, when I passed the close() function an uninitialized variable, I was really passing it a value of 0. And do you know what resides at the 0th buffer spot on the OS? Standard in. In effect, I was closing standard in. I didn't even know you could do that. I guess I'm just glad that I got it to work.

Currently I'm working on adding a record and playback function, so that head movements can be recorded and played back anytime. After that I think I'm going to use Doxogyn to attempt to generate really good documentation for the code, and then I think I will be done with it.

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June 3, 2009

So, as it turns out, I did in fact find out how to list all available serial ports on a linux computer. There's a file buried that has a list. But, as of right now, my auto-search function doesn't quite work, and as this project is very doable without it, I'm going to get the more important things done first.

Speaking of more important things, yesterday I was having problems getting communication over the usb to serial port adapter working. At one point I had it working, then it just stopped working and I couldn't fix it or figure out why (very, very aggravating). Stoytchev suggested that I use the serial port code already created by Barret, as they went a lot more in depth than I did. I tried that out and it worked just fine.

So this morning I went to the lab and coded the three classes we're going to need to control the head. At the moment I am in the process of troubleshooting them because, well, like everything in programming, they don't work yet. I was able to move one eye back and forth just fine, but when I tried to move both eyes it only moved one of them. My theory is that since I'm sending the move commands for they eyes all at once that the first eye's move commands are getting overwritten. I'm going to try putting a delay between them and see if that helps.

Taylor says he finished the head tracking algorithm already, so I'm going to see if he can't help out Ugonna and I as working with serial ports in linux is very frustrating.

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June 2, 2009

Jump

Okay, so a lot can happen in a very short time. Not to say a lot did, but, well, plans have now been made and are under way that weren't conceivable this time yesterday. It would seem that Professor Stoytchev thinks it would be a good idea for us (Taylor, Ugonna, and I) to go to the Robotics: Science and Systems conference in Seattle from June 28 to July 1. This sounds like a great opportunity for us, but its going to cost a lot. The University and the REU program are going to cover most of the costs, so we will end up each paying a little over \$200 out of our own pockets to go. Considering how big of an opportunity this is for us, I don't see this as that much money. I have already made the hotel reservations, and at the moment I am trying to book the flights but it would seem ISU's internet (or at least here in the VRAC) is on the fritz. We just registered with the conference, so that's taken care of. The only thing after I get flights booked that we have to do is figure out transportation from the airport to the hotel and back. They have a shuttle service there, so this should be easy to do. I'm a little nervous about all this going through, especially since I'm the one who's credit card is getting used to do all this, so I just hope to heck that my reimbursement doesn't fall through.

On a different note, I think I am very close to solving the problem we've been having with the robot. The head communicates over serial ports to the computer, but so far I've been unsuccessful in figuring out how to list the available serial ports in code in linux, but I think I may have found it.

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Topic revision: r1 - 2009-06-02 - 18:41:52 - ConnorSchenck

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June 1, 2009

Jump

So after I finished blogging last time, we were given tours of all the cool stuff here at the VRAC. We got to see the multitouch table, augmented reality goggles, and the haptics area. We also were given a tour of both the virtual reality caves. In the C4 they were running a game similar to pong, and I actually managed to beat it, not an easy task considering that running into the wall was a very real possibility. We also got to see the C6. It was very awesome. I actually managed to lag it down to about 1 fps, even considering that 48 computers with 2 graphics cards each ran the thing. That was pretty much the end of Friday as far as I can remember.

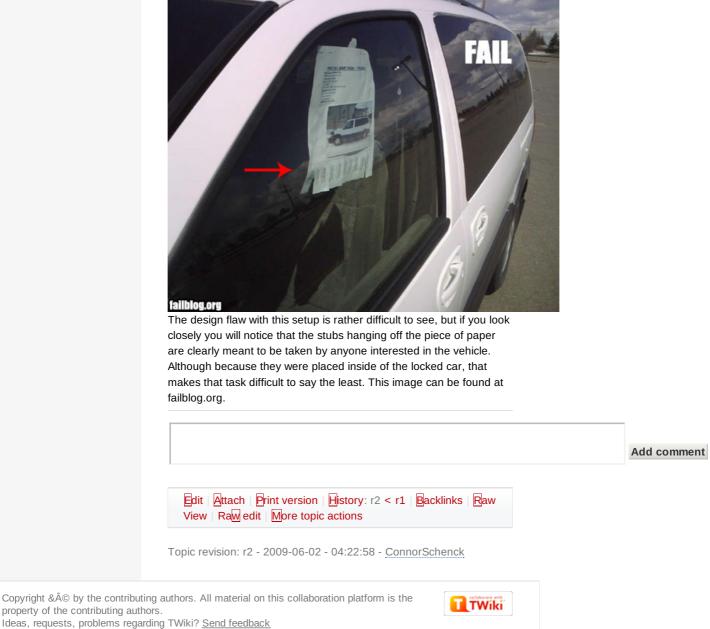
Today, after realizing that the UDCC dining center closes at 9:15 am for breakfast and having to go hungry until lunch, I went to the developmental robotics lab. There I started hashing out some of the specific classes and such that I thought would work well for controlling the robot head. After I got back to the VRAC lab, I put those up on google docs. I won't share the pseudo code here, just because it's so long.

Taylor, Ugonna, and I went to lunch and we talked a bit about some of our project ideas. It seems I forgot to read the papers Jivko assigned me, I'll have to do that this evening. Even so, we seem to be getting a better grasp on what we want to do. Hopefully we can get a better idea by the end of the week. I am excited as to where this may go.

HCI Fail-Design assignment



Okay, so the problem with this design is that here, there is a door with a reddish frame around it and a silver plaque with the room number. It would be expected that any similar arrangement would also have a door, but obviously not. If you were wondering, this picture was taken in the basement of the Parks Library here on the ISU campus.



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Edit Attach

May 29, 2009

Yesterday after I finished blogging we went over to the developmental robotics lab in Coover and talked with Professor Stoytchev, Shane, and Jivko. We got an initial introduction to the robot. Matt Miller came by as well and we were able to converse with him for a while. Cody G., one of the people who designed the head with all of its servos, gave Ugonna and I an extensive explanation of how it worked and how to use it. I was very relieved. At first Stoytchev mentioned that they had written all their code in C#, so I was rather worried that it was going to be a nightmare trying to port that to C++ and get it to work in linux (the computer that controls the arms is a linux machine and Stoytchev wants one computer to be able to control the entire robot). As it turns out, its just simple byte commands that can be sent over a serial port to the boards in the head that can control the servos, much in the same fashion that controls the hands. Stoytchev said that he wants us, as a first project this next week, to create a program for the robot that uses the cameras to track faces and then has the cameras and head follow them. While Ugonna and I were getting an explanation of the head, Taylor was learning from Matt about Matt's research and how it could apply to what we want to do. That was the extent of what we did yesterday after I blogged.

Today we spent the day doing this Affinity Research Group stuff. It seemed alright, but really felt like a big rehash of stuff that we've all learned before. Still, I feel that the relatively short amount of time we spent on that that in the end it will end up paying off. I'm a little bit worried about finding a research project, but I think that the papers that Jivko is giving us to read should help a lot with that. I hope that we can get some time in the lab later today after the demos so we can get started on the head program.

Add comment

MichaelCurtis - 29 May 2009 - 19:57

I'm stealing your layout for blogging. I hope you don't mind. I just think organizing it by date is useful.

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Topic revision: r2 - 2009-05-30 - 00:57:24 - MichaelCurtis

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