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Joshua Situka July 29, 2009
 This is probably my last blog, unless I feel compelled to share some more of my thoughts. I would probably recommend this program to other people on the simple fact that they do alot of self-evaluation and are always trying to improve themselves. Well, all the things they have to worry about, and from what I hear about other REU's that is pretty impressive.

Today we should still be one doing work but really there is nothing to do. Lish sent me his stuff which I will combine with mine from last night. Then I'll be ready for the demo, and to leave. Ames, is aint that bad, I think you have to search harder than most places to find something to do. I learned long ago that its not the place that gets your entertainment by your imagination that does. So even if this place is in an ideal location, i wouldnt consider coming here for grad school. One thing is my imagination cant change the weather.

I think I got Kelly hooked on Typing Maniac, I have a feeling she is going to beat my score.

I wonder if I'll keep in touch with my teammates after this. Pretty nice phone calls. I assume they like me but I don't actually know enough to keep in touch. Also, learned long that if you don't know someone the position. But if I ever beat Lish's Tetris score, or if Kelly ever beats my Typing Maniac score then I have a feeling that there will be some words between us. Maybe Zayra is right, Facebook might never go away, perfect way to casually keep in touch.

Joshua Situka July 28, 2009
 Still revising the paper nothing special today. Yesterday Song showed us his 320,000 camera that had a ridiculous megapixel count. He also took 20 video sequences of us with his camera. He seems very happy with what we have done, which is 200 degree turn from how everything ended just a month ago.

Also, best and worst things this summer. Okay worst was definitely STAT, the teacher was cool but the timing and subject matter was just a good recipe for me to fail again on numerous occasions. I would have a tutorial of [STAT](#), that would have been great but I dont think many other groups would have use for that. Maybe a class on getting money for graduate school would be more appropriate, so that we could have more tools available.

Best was journal club. Zayra let us be pretty open with our topics and most were HCI related. I feel that discussions are always fun and I like hearing other's opinions especially ones that differ from me because it always gives me something or another point of view to think about. I know everyone else is not like that but I like conversation...in case anyone didnt notice.

Joshua Situka July 27, 2009
 Today, I just revised the paper again and again @ Song's happy South to my life.

And we are just getting ready to do the final demo.

Joshua Situka July 22, 2009
 I have been counting down they days to my b-day, and I just realized...im just going to be a day older tomorrow than I am today. 22 is not quite as special as 21...oh well, good excuse to celebrate anyways.

Project is coming along okay. Just doing the paper. I am going to add pictures to the results and methods. And that's it. In the first draft, I already knew its going to get butchered, and endlessly critiqued, so not too shabby. I needed my prose 20 times or at least 10 times during the paper is going to get at least 20 revisions before my mentors are cool with it.

Transformers tomorrow, on MAX, yay!

MinChoi - 25 Jul 2009 - 22:25
 Happy BIRTHDAY SPAM!

HamadMcintosh - 24 Jul 2009 - 13:45
 Happy Birthday!

Joshua Situka July 17th 2009
 So went to Kelly's house yesterday. Needed to say a few nice interesting experience. The guy has 3 parakeets, a dog, and two turtles. And he likes to play with all them. I was funny watching him play fight with his dog (Emmie) because he would cut the legs out from under her and she would just go down, and then he would hear her beg. And if that wasn't enough Emmie would be picking fights with the parakeets who are 200 times smaller, and not even. And then Lish is going to work on the Zoom program but the parakeets keep knocking it down, and the process to climb over his laptop (as Ken would say "They like to beg")

Then me and Kelly were going at it with Super Knock out (a cool boxing Wii remake of a classic game), and she was pretty much into it, but still provoked 20 wins to me. She says that was cheating but I'm sorry parakeets at someone's back, covering their eyes when going to play, and taking away the controller, almost really qualify as cheating in my book. I played completely fair. I just play to win.

Oh yeah, we are suppose to talk about work too. Im going to finish the paper today. Again, with Song's suggestions.

HamadMcintosh - 20 Jul 2009 - 13:46
 How long is your results section?

ZayraJordan - 20 Jul 2009 - 09:55
 ommm... it sounds to me like cheating...

Joshua Situka July 15th 2009
 8 days @ 22. Yes. I think I might of got the calibration code working like I want it. I wanted to zoom in the window, convert from DGR to YUV, and use three colors to track the skin detection instead of one. They are all completed.

Also, showed Song my poster yesterday. He pretty much hated it. I remember it felt a nice one today with all the bells and whistles. I really dont want to show him, because I dont feel like making a 4th draft. kinda want to surprise him on Demo day.

Also, if anyone is looking to take out some aggression Fight Round 4 is the perfect way. You get to hear the horns crack, and see the face that in disgust when you land a hypoxic. So I was kicking off with Ugona. He was Frasier and I was Mike Tyson. However, I was imagining his fighter's head as the Zoom. Needless to say, I won every time.

UgonaOteri - 15 Jul 2009 - 13:27
 Never worry. One tutorial and GAME ON BRO!!

Joshua Situka July 13th 2009
 10 days @ 22. Yeah.

Anyway, we went partying yesterday. And was slipping and sliding into bushes and breaking going everything I got. I ended up screaming up my ankle for the rest of Sunday, but it was worth it. So I had fun.

Back to work today. It's one thing to get something working...to perfect it. Perfecting the Zoom calibration is annoying because now its "working" but doesn't get me better values than what I need before I need to perfect it (which defeats the whole purpose). So yeah, that and YUV, and putting in three colors for comparison as suppose to two are what I am working on today.

ConnorSchenck - 14 Jul 2009 - 14:44
 Yeah, I'm still really sore from all the sliding and diving on Sunday, but it was worth it. Hope your ankle feels better soon.

Joshua Situka July 10th 2009
 So this guy Lucas is doing the master dissertation over 20 months of the head using the Zoom at 1.30pm. I think he's going to have to miss journal club because this would be too protesting for me to miss out on. Lish seems to have a better tracking of the finger using some vector thing Ken told him about. (everything that Ken teaches seems to just rock magically). Kelly still thinks repeating the finger movement. Song thinks that the calibration of the camera will fix it, but not too convince. For some reason the camera will track the hand but it needs a longer IPII target, which is kinda hard to explain but basically there is change the color but then I will only capture skin color, and one more color.

Results are due today. huh... everyone else just started their experiments. We'll see how far we get. It might get something down for how far we get right now.

Joshua Situka July 7th 2009
 I managed to calibrate the camera, now I just want to make it better. that allowed me some way to use the camera function cGetImageROI to put the window a certain way. The program crashed. Then I had my own way. The program crashed again. Programming is very fun sometimes. So me, Kelly, and Lish were thinking of re-making the office scene scene when they had the cup out of the printer with a baseball bat. Instead we have the Zoom. Unfortunately the zoom cost 300 bucks, and we pretty can afford to replace the its box. So I think I might just take a picture of the Zoom. And give Kelly the bat and let her go to town. she doesnt say it but I can tell she would like to go a couple of rounds with it.

BellaManaim - 09 Jul 2009 - 15:26
 please look at the email Pam sent and sign up for our study

MinChoi - 08 Jul 2009 - 23:45
 lol hamad... JOSHUA COME BACK!!

HamadMcintosh - 08 Jul 2009 - 14:04
 Well you know what they say. If at first you dont succeed. Try... try... try... again.

ConnorSchenck - 08 Jul 2009 - 13:13
 yeah, those ZCams are fun to play with at first, but after working with them for a bit while you realize just how ridiculous they are.

BellaManaim - 07 Jul 2009 - 14:38
[http://www.hci.iastate.edu/REU09/bin/view/Main/joshuaSitukaSBlog](#)

Joshua Situka July 6th 2009

They said they want to hear about our feelings on this blog okay here they are. Right now I'm not sure that we didn't get the checks direct deposited, now I'm jumping through hoops to get to Africa. Airlines \$400 for their basement fee to go to my cousin's memorial service. My bank apparently needs 2 days to activate the check. Just guess what in three days is when the memorial service is. My parents don't have the money because they just found out they are the "next of kin" listed under my cousin and since my uncle was in a different context they are already taking care of being his body back to Uganda. (Phas 2300)

I may be an introvert and have lots a good acquaintances, but really there is only 3 hours I can call and count on them helping me pay it. I called each one and the last one, fortunately, Steph said she will help. She said I'm not sure if qualify for a reimbursement fee to begin with because every other airline apparently "usually" don't count in losing America Airlines is somewhat compassionate considering in the "next of kin" son... whatever that means.

So right now in frustration, and just tryn to get this zoom to calibrate correctly in which is related to do during the 6 hours I was here yesterday.

Add comment

PamShill - 07 Jul 2009 - 07:25

Sorry, Josh. Please let me know how it all turns out. I suggest that you contact your grad student mentor to help you with the zoom calibration. Sounds like you have spent enough time on this task and could use some help or suggestions.

MinaChoi - 06 Jul 2009 - 15:45

~! sorry... I'm sorry for your losses... I hope things work out...

BellaManoim - 06 Jul 2009 - 14:43

I'm sorry about your cousin Josh, and that sounds very frustrating

Joshua Situka July 1st 2009

I am trying to do this image processing with openCV, and yesterday took me 2 hours just to get the picture to be recognized. You have to include all these dependencies, library, and include files in 5 different parts of Visual Studio. I started to stop at my monitor when the same errors popped up, everytime I THOUGHT I fixed something. Today things coming a little more smoothly because I got the color count of the pixels, now I just have to compare to Matlab to make sure the codes produce the same thing.

Then all of calibrating colors, which really have no clue how to start. Countdown 22 days till on 22. Yeah the most unexciting 8-day ever.... There is really no more to look forward to, except when I turn 25 and get senior discounts at HOP. That will be a Great birthday,only 23 years and 22 days to go.

Add comment

Joshua Situka June 29th 2009

The Zoom is frustrating me, it works perfectly one day, and today I spent two hours just trying to make the colors work again. Now they do...but I don't even know what I did to fix it. The colors are very sensitive.

Song has decreased the scope of our project due to time constraints. Now we just want to make the markers small enough to be insignificant in loss. However, I would prefer to just focus on finger detection with openCV. I don't know if the ZCam has the capability of accurately detecting truly small markers. It can't seem to tell the difference between orange and red. Like I already said the colors are REALLY sensitive, especially in lighting changes.

Add comment

BellaManoim - 30 Jun 2009 - 12:05

Item, "by a brighter orange and a redder red?"

ComerSchoenck - 30 Jun 2009 - 06:54

You may want to look into an HSV color calibration value representation of the color image instead of the default RGB. RGB could help with some of that color detection stuff. As well you may want to look into disabling auto white balance. That some sensor issues but remember when working with the ZCam and that help.

TaylorBergquist - 30 Jun 2009 - 00:17

Yeah, computer vision is like that sometimes. Color detection sounds easy, but it isn't. [This](#) has some information on how to do color detection. [Another link](#) discusses auto white balance and lighting in general, and a big problem as far as color detection is concerned that humans mostly compensate for automatically.

Joshua Situka June 25th 2009

So we almost got the markers thing done, which is the easy part. I got the low resolution appendage like fingers to work with different colors. Fully working on the making the appendages look like a hand, since we have to use simple shapes for the hands she is only using cylinders and spheres, and Mike makes fun of it, saying it looks like a flower or other glow. He's kinda right, and just found Steve got traded to Cleveland, Vince to Orlando, Farnah Favonist died, and that Michael Jackson just got hospitalized with cardiac arrest....there too much entertainment/sports news going on for me to concentrate. I'll post this up tomorrow.

Add comment

Joshua Situka June 21st 2009

Father's Day came and went, and for some weird reason I'm at the lab helping myself at do work but it's just not happening. Eventually I'll decide to something today, it will probably be right before I go to bed and realize I need to do something for Monday. Oh well. I'm hoping I can get this Hidden Markov model thing going in two weeks. Sounds cool...but really difficult. On another note, I finally finished reading at least 2 chapters of the book "The World is Flat" and can now suppose to present the chapters to the class. At least that's the deal I have with Steve. Also, noticing that one here goes by "Dr." even though they have their [D], I guess that's just the sign of the culture over here. If I ever get mine, would go by "The Dr." Take the "The" is important because gives it a nice little ring.

Add comment

BellaManoim - 24 Jun 2009 - 13:17

update your blog!

HamadMcIntosh - 24 Jun 2009 - 13:11

How is "The World is Flat"?

MichaelOren - 22 Jun 2009 - 14:27

What you should really do is pick up an MD, [D], and JD then you can be Dr. Dr. Dr. (although lawyers, JD's don't actually go by doctor but it is a doctorate degree). There is an option at least State to concurrently get your JD and [D] in partnership with Drake--in Des Moines.

Joshua Situka

So this openCV stuff is a little confusing but we finally got the book. In trying to decide what our next step is going to be since we get the color rotating. This stuff is kinda hard working on teams strategy. It seems they way things are going, one person can't do their job if another is finished with theirs. Or there is a kind of waiting delay because their task are sometimes not that tangible till the other person get done.

On the good note, now I'm pretty certain Link is a genius who gets bored easily. He deals with complicated code very easily, he got the 3D color rotating with no hands and nothing else between the time I started writing this blog, to when I finished sentence. Now on to the hand.

Add comment

Joshua Situka

Our C++ project is all of sudden really cool. Link messaged around with it for a day and a half and the thing looks and sounds amazing. I added some leds and shades and Kelly did the last finishing touches. This programming with other people thing is kinda weird at first but then you get use to people displaying their different strengths on the keyboard. I'm hoping that our ROS project is going to go this smoothly. We actually have deadlines now if we need to do.

Rotate a cube with/without marks - 2 weeks

one finger rotation with markers - 2 weeks

Multiple finger rotation with markers - 2 weeks

Multiple finger without markers - 2 weeks

We'll see if we have enough time to complete everything, and do paper/presentation/classes. (I'm really glad STATS is over)

And this modeling thing is really cool, how come they didn't teach me nothing but Texas History in high school/university highest elementary. This would have been a much better use of my time. I just spent 6 semesters anyway.

As the summer goes on, I'm noticing my creativity towards my blogs are starting to suffer because I'm usually too tired to care about doing anything special. oh well.

Add comment

BellaManoim - 16 Jun 2009 - 14:46

that's good you have a plan

HamadMcIntosh - 16 Jun 2009 - 14:31

Thanks Josh. I like that I've finally found an online class about years of wandering through the desert. It sounds like you really be using all the stuff we've been learning in our programming classes. The same goes for our group.

Joshua Situka

I kinda realized they told us how to do literature review and research questions in earlier parts of research classes. It kinda helps us focus on more on our research because we are now forced to try and answer specific questions. Thank god the HCI course was cancelled yesterday. I just did not have the time I wanted to complete the work assigned the way I wanted.

I'm really tired of reading, I'm going to take a break today.

And now I just remembered that our group has to start on the big 10-10-10 project.

There goes the weekend. I never even finished the last HW assignment for [D], I'm gonna pay attention more to deadlines, then research assignments, sneak up on you like a radioactive.

Add comment

AmyGreen - 12 Jun 2009 - 15:15

NEGATIVE!!!

Joshua Situka

I'm wondering why it takes me twice as long to write papers than to write code.

Add comment

PJ Campbell - 11 Jun 2009 - 22:07
...because codes are logical and papers aren't!!

IvanOjeda - 11 Jun 2009 - 22:05
It takes me twice as long to do both things compared to you guys >>

BellaManoim - 11 Jun 2009 - 21:19
It takes me twice as long to write code than to write papers

Joshua Situka
Our group got a little lucky this summer. Turns out the 2-cem experts that we had have a side project that goes hand and hand with our project. So they are helping us turn object colors into markers for the 2-cem to detect. It's some really cool stuff. It's cool that people in the lab are pretty helpful.

Add comment

HamadMcIntosh - 10 Jun 2009 - 13:38
Thanks for the birthday wishes. It always rains when someone else has done some of the work for you. The Digital Games group project is based on this research group in Switzerland. They wrote a paper that explains exactly how to set up logging capabilities for digital games. It's very helpful. Yea, when Kaveem was at UCLA they started doing things like this in games. Much to their dismay, he developed the sky hook and continued to dominate.

Joshua Situka
Music, bells, whistles, and the Mario theme song and our group will still win the game presentation. Oh well. Eric didn't even have a prize or ignore us just for HSCC's wrong rights. But I've used to be something really if we win the opening competition. Basically now, instead of the hand we are going to get to see on steroids, and make it look really cool. Apparently the hand takes ALOT of work.

Progress on big project is still not really going anywhere. Still just need more time. Guess Joe and those have gone so really good info but today didn't get really any free time. All now and its 4pm. So pretty put in some later hours again. I will start to refer to my caffeine schedule (please reference June 2, 2009).

Add comment

BellaManoim - 10 Jun 2009 - 11:04
come to the scavenger hunt

MichaelOren - 10 Jun 2009 - 10:53
To: Tac-Tac on steroids sounds to me like you're going to implement To: Tac-Tac Cube (or 2D or whatever you want to call the 2D/3D version of To: Tac-Tac). Some animation effects for winning would be nice too. Maybe some custom "log" to observe the hand at times and make the game more challenging. Be creative with it!

Joshua Situka
I'm really looking forward to meeting around with the opening stuff. Our group is going to create a Mario type hand which can move freely. Well at least that's what we plan on doing. It coincides with our project because Song wanted to create a hand anyways with the 2-cem. I'm hoping we get to do some this week.

We start STAT today. The STAT and HCI courses are at odd times like 3:20-3:30pm. I usually don't get too much accomplished in the 30 minutes after. I rather they just be right after lab so we can get them over with and work on our project straight through.

Add comment

PJ Campbell - 09 Jun 2009 - 15:16
I'm happy to report that I've posted today. BTW, please review these photos

MichaelOren - 08 Jun 2009 - 22:56
I can see if I can switch the HCI course a little bit at least. It would be easier to change it from 3:20-3 (it's an hour and a half) then right after (though would) that still work unless you should still get the straight block of time for research, and that way if you all finish blogging earlier you don't have a weird block of time to waste you can start working right away.

BellaManoim - 08 Jun 2009 - 12:56
me too

Joshua Situka
After talking with Song about the project turns out that Microsoft only sees part of things and what we are doing is much more full detail on the body part. So I feel much better about the project, now just waiting on the installation of HTX on our computers so we can start playing with the Super Language software.

And I'm planning on doing some real cool stuff to our 3D-face project. I want to get music playing when a player wins and have some failure song if there is a win. I want to see the competition.

My mentor makes these facts that are really goofy. And randomly does music. And has some type of machine that supposedly senses radiation. (and for some reason he felt that he should test and see if our gun drops had radiation). This stuff is pretty funny. I don't change this as a research lab when I was a kid. I thought everyone will be wearing white coats with only two words in their vocat: "Glynn" and "glenn". And of these people have interesting personalities.

Add comment

ZayiraJordan - 08 Jun 2009 - 09:38
Funny how your blog reminds me of "mad scientist" or "the absent minded professor"...

IvanOjeda - 05 Jun 2009 - 20:34
LOL, I hope you can put some awesome music on your game. I'm enjoying some salsa!

BellaManoim - 05 Jun 2009 - 16:38
hah! if there is anything the Simpsons taught me about nerdy scientists, glynn glenn is one of them

MichaelOren - 05 Jun 2009 - 16:12
There's definitely never a dull moment with Kenny.

Joshua Situka
We pretty much finished our 3D-face project. The only thing to do is to comment the program, make it user friendly, and remove input protection. However, our real big project is programming. There is this super language code that right now doesn't make too much sense, but that's because we are more into programming than how the code works written. And also it turns out that X-Box just released some huge 2-cem thing on monday that can already do what we were working on. Now I feel that the wheel was just invented in another part of the country, when we were just figuring out that making some round object be a good idea. (it could make a better analogy but whatever). We have a meeting with our faculty advisor and teacher if this new development is going to change our project tasks.

Add comment

StephenGilbert - 05 Jun 2009 - 09:46
Yeah, you talk with the folks who have done 2-cem work around here, you'll find them curious about it's happenings. This problem is by no means solved, that video is just Microsoft marketing. Song knows that if this research weren't needed (and I bet right), he wouldn't be getting funding and here you doing it. By the end of the summer, you'll probably have a better video.

ZayiraJordan - 05 Jun 2009 - 09:25
Hey, yeah... Don't worry about "beating" it. It is quite possible that you guys went about the problem in a different way. Some of the advances in science have come about this way. Computations in finishing up!

HamadMcIntosh - 04 Jun 2009 - 17:11
Erroneous input is the problem of the erroneous user.

BellaManoim - 04 Jun 2009 - 16:11
That's good that you do not see the project to about done. I don't totally get your analogy but I think I know what you're trying to say.

Joshua Situka 3 June 2009
Okay, in starting to realize that there is a lot more stuff due than what I expected. I can't wait about getting anything done. Well I am little worried about getting it done to my professor and my own standards. I can see a lot of of participants when I do come about something. And making sure all my programming, work, reading, and HSCC stuff at home is properly taken care of, is probably going to be real busy. On the other hand, this past spring semester has already prepared me for any sleepless nights resulting in caffeine overloads on the body. I could have to cycle my caffeine sources for them to take any effect. It's kinda like how body builders have to cycle workouts so they don't hit a plateau. I think this summer I'll go with this schedule.

- 1. coffee
- 2. green vault
- 3. mg coffee
- 4. monster
- 5. redbull
- 6. 5 hour energy shot
- 7. red vault
- 8. vanilla coke
- 9. turbo coffee from burger king

Add comment

MichaelOren - 03 Jun 2009 - 13:53
I recommend the 5 hour energy for week 10 (unless you count this week as week 1) so there's probably be at least one or two... I have a 25 cent coffee maker here and I'm happy to make extra coffee if there's interest in it.

Joshua Situka 2 June 2 2009
This lecture today with Stephen over cognitive/behavior learning and Carnegie Learning software was really cool. I didn't realize there was research that much is in line with what I wanted to do... that is something that I could really contribute to and I'm excited I decided to get into the HCI field. I'm now really glad I took this research opportunity over the fun summer in Chicago making CE money.

Add comment

MichaelOren - 02 Jun 2009 - 14:53
I have a paper that takes a critical stance to intelligent tutoring- I don't agree with it, per se, but I think it's an interesting read and has some ideas worth thinking about. If you're interested in that let me know, and I'll send it your way.

BellaManoim - 02 Jun 2009 - 14:17

[BelshamAnonim - 02 Jun 2009 - 14:15](#)

What's great? I didn't know you had an interest in software for learning.

[HamadMcIntosh - 02 Jun 2009 - 14:05](#)

You had we didn't have this technology when we were in high school, huh?

[Joshua Situka 1 June 2009](#)

• pic_155.JPG



This is a light and its intended use is to light up rooms with light so you can see. However, its usability suffers because of safety. If you were trying to replace the bulb inside you will need at least one other person helping you because of the size of the light. Even then it would be awkward to handle and give to someone else because of the size. What would be better is to have a light that could be handled easily with one hand so that it could safely be replaced.

• [Comments](#)



The Nintendo GameCube controller on the top is intended for you to play video games (intentionally on a television). However, its usability suffers because it is inconsistent with many controller designs of the past. Many controllers (as seen in the 2-Dot 200 behind) have more of a handle for you to use and the button layout is more symmetrical. Therefore, adjusting to this controller scheme is suboptimal for my apparent reason. They actually came out with controller's after this one that address that issues with more handle.

[Add comment](#)

Joshua Situka - 29 May 2009

So CAGS test, which is unfortunate. But at least I can spend more time doing my research. We are probably going to do a Tic-Tack-Toe game for our C++ project, we only have a week to do it. I feel real confident about the projects that I am doing. And I still can't understand how I ended up in the programming line, I am an excellent gamer, because I don't know half that stuff. Oh well, I just want to start playing with the C-cam, and downloading [Quake](#), and [Madden](#) to my laptop to do the work at home. I feel like I'm rambling so on going to sleep.

[Add comment](#)

Main: Joshua Situka - 29 May 2009

I actually know what we are suppose to do now with the research. I was EXTREMELY tired at first, but with alot of work I think our team is going to do a good job. Apparently Star Wars: Robot Training is going to be the craze in Hollywood and Video Game Design as soon as the first of an away war to integrate the technology with the games and movies. Also, the [Lords of the Rings](#) Yeah. Just a few bits away from my dream final...if the Kaber's web team.

[Add comment](#)

Michael Oren - 29 May 2009 - 13:41

Please add the comments code to each blog entry so people can respond to your posts (just copy and paste the code block).

~ [Joshua Situka](#) - 29 May 2009 I never thought I would ever blog but I had to make fun of people who did when I was younger. This is karma. So I have been in town for 2 days now, and everything is going pretty well. I like the diversity of the people in the REU program and think I will have a lot of fun this summer. I am not really looking forward to hiking this evening, I rather play basketball or watch the CAGS, but I will try to make the best of it.

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