

From: Ben Goertzel [REDACTED]
To: "jeffrey E." <jeevacation@gmail.com>
Cc: Joscha Bach [REDACTED]
Subject: Re: quick question -- AGI-16 snacks and reception sponsorship?
Date: Fri, 15 Jul 2016 20:21:43 +0000

Hi Jeffrey,

It will be great to meet up and talk!

However, on the 20th I am co-organizing (and serving at emcee at) this event at the New School... ("Future of Mind" workshop ...)

<https://futureofmind.wordpress.com/>

It ends at 6:15PM on the 20th ...

We can meet in the evening on the 20th if you like (6:45PM would work), or else maybe the 21st if you're available?

With more advance notice I could have put this Future of Mind event on the 21 so as to meet with you on the 20 ... but now we have 110 people signed up for the event on the 20th ...

thanks
Ben

On Sat, Jul 16, 2016 at 3:17 AM, jeffrey E. <jeevacation@gmail.com> wrote:
> i can do the afternoon of the 20th for anyone you guys think i should meet.
> and will stay around. if necessary i can pick up any aadditonal
> expenses incurred in doing so

>
> On Mon, Jul 11, 2016 at 9:31 AM, Ben Goertzel [REDACTED] wrote:

>>
>> All good, thanks so much for the help!

>>
>> On Mon, Jul 11, 2016 at 8:42 PM, jeffrey E. <jeevacation@gmail.com> wrote:

>>> no jeffrey epstein . is enough
>>>

>>> On Mon, Jul 11, 2016 at 12:36 AM, Ben Goertzel [REDACTED] wrote:
>>>>

>>>> About the sponsorship -- should I list one of your organizations on
>>>> the conference materials as a sponsor? If so which one? Enhanced
>>>> Education again?

>>>>
>>>> thx...

>>>>
>>>> On Mon, Jul 11, 2016 at 10:36 AM, jeffrey E. <jeevacation@gmail.com>

>>>> wrote:
>>>> > first paper is silly, it does not include rythm, only notes.
>>>> > points
>>>> > but no temporal shape. sorry
>>>> >
>>>> > On Sun, Jul 10, 2016 at 10:25 PM, Ben Goertzel [REDACTED]
>>>> > wrote:
>>>>>
>>>>> Hmmm...
>>>>>
>>>>> I have been thinking a lot about music too, but from a different
>>>>> perspective...
>>>>>
>>>>> Do you know this paper on Combinatorial Music Theory?
>>>>>
>>>>> paper:
>>>>> <http://andrewduncan.net/cmt/>
>>>>>
>>>>> video:
>>>>> <https://www.youtube.com/watch?v=OMDtp89Xqlw>
>>>>>
>>>>> It's extremely good, it clarifies some basics of music theory in a
>>>>> mathematical way without the confusing archaic terminology of
>>>>> standard
>>>>> music theory... and suggests various interesting new directions...
>>>>>
>>>>> This paper is also related and somewhat worthwhile
>>>>>
>>>>> https://www.math.washington.edu/~morrow/336_09/papers/Ada.pdf
>>>>>
>>>>> though neither as easy-to-read nor as interesting...
>>>>>
>>>>> What these papers are getting at are the hidden abstract-algebraic
>>>>> and
>>>>> information-theoretic structures underlying melody and harmony...
>>>>>
>>>>> What you're talking about regarding symphonies is sort of like
>>>>> "narrative structure" in stories it seems like -- or "discourse
>>>>> planning" in dialogue -- i.e. it's higher-level
>>>>>
>>>>> That level is important, for sure. But what the papers I've linked
>>>>> above are getting at is a bit lower-level --- more analogous to the
>>>>> syntax and phrase/sentence level semantics of language, I would say.
>>>>> The algebra and information theory of melody and harmony have to
>>>>> work
>>>>> out at the level of individual chords and melodic passages, for the
>>>>> higher-level development of a symphony or other complex work to make
>>>>> sense...
>>>>>
>>>>> About
>>>>>
>>>>> > I mashed all of the four symphonies together ,
>>>>> > playing recordings of the 3rd 5th 6th 7th all overlaid on
>>>>> > each

>>>>> > other,
>>>>>
>>>>> I have done stuff like that before, but not with classical music...
>>>>> with my own recordings ;) Do you have a sound file of your
>>>>> experiment? I'd be curious to hear...
>>>>>
>>>>> Interestingly, the "plumbing" work we've been doing to connect
>>>>> OpenCog
>>>>> to the Hanson robots would also enable us to use OpenCog for music
>>>>> composition / improvisation experimentation ... (i.e. we've been
>>>>> dealing with real-time input and output, which we hadn't been doing
>>>>> before)
>>>>>
>>>>> But at the moment (this opinion is of course subject to revision) I
>>>>> somewhat feel that the basic problem of "what makes a melody
>>>>> /harmony
>>>>> / rhythm pattern sound emotionally and cognitively appealing" has to
>>>>> be solved before one moves on to issues of symphonic structure....
>>>>> I.e., we probably gotta solve folk music before we can solve
>>>>> Beethoven
>>>>> or Bartok ...
>>>>>
>>>>> Meyer's old theory of "surprising fulfillment of expectations"
>>>>>
>>>>>
>>>>>
>>>>> <http://rhythmcoglab.coursepress.yale.edu/wp-content/uploads/sites/5/2014/10/Emotion-and-Meaning-in-Music.pdf>
>>>>>
>>>>> is basically correct IMO (if you don't know that book check it out,
>>>>> you'll love his classical music examples) ... but the subtle point
>>>>> is
>>>>> that the expectations and the surprise we experience are a subtle
>>>>> mix
>>>>> of
>>>>>
>>>>> -- basic mathematical music-structure factors, as in the vein of the
>>>>> two papers I linked above
>>>>>
>>>>> -- human psychology factors as modeled e.g. in Joscha's work and in
>>>>> the Component Process Model (
>>>>>
>>>>>
>>>>>
>>>>> http://boccignone.di.unimi.it/CompAff2015_files/Phil.%20Trans.%20R.%20Soc.%20B-2009-Scherer-3459-74.pdf
>>>>> which we have introduced into the OpenCog / Hanson Robot codebase to
>>>>> fill in certain gaps in Psi
>>>>>
>>>>> -- human body-rhythm patterns, to do with the way the rhythms of
>>>>> different subsystems of our physical bodies overlay on each other,
>>>>> which we perceive all the time sub and semi consciously and which
>>>>> influence our perception of music; obviously even classical music

>>>> without a drumbeat is highly rhythmic...
>>>>
>>>> -- more abstract cognitive pattern recognition
>>>>
>>>> So a good melody packs up "surprising fulfillment of expectations"
>>>> where the expectation and fulfillment are assessed according to a
>>>> combination of the above 4 factors ... and if you leave any of the
>>>> above 4 factors out you're going to get lots of "false positives"
>>>> ...
>>>>
>>>> All of the above factors are there in Chinese, African etc. music as
>>>> well as Western music, but manifested in different ways...
>>>>
>>>> I can pretty clearly see how to seriously investigate the above but
>>>> I
>>>> can't at the moment see a "quick and dirty" way to make huge
>>>> progress
>>>> quickly ... while seemingly simple, the question of "what makes a
>>>> melody appealing" actually wraps up a lot of issues ... BODY,
>>>> EMOTION, COGNITION ... plus MATH-OF-MUSIC ...
>>>>
>>>> Fascinating stuff though ;)
>>>>
>>>> If you want to design a research programme in this direction I'd be
>>>> game to participate; I don't want to drop my other OpenCog R&D
>>>> obviously but music just fascinates me at a heart as well as head
>>>> level, so I'd be willing to put some time into this in parallel with
>>>> making the Hanson robots work... I do have a feeling that to really
>>>> crack the problem of what makes a melody sound good, one has to
>>>> crack
>>>> the problem of how feeling and body and cognition work together,
>>>> which
>>>> is a key problem for AGI generally speaking...
>>>>
>>>> -- Ben
>>>>
>>>> P. S.
>>>> Of course, complex development of themes and counter and sub themes
>>>> and so forth is not exclusive to Western classical music.... For
>>>> instance this 30 minute instrumental-rock song composed by
>>>> Buckethead
>>>> in memoriam for his mother has incredible subtlety of development
>>>>
>>>> <https://www.youtube.com/watch?v=E5PXYehriYY>
>>>>
>>>> ... so many themes introduced in the first half and then complexly,
>>>> genetically crossed over and synergized in the second half.. It is
>>>> my
>>>> firm conviction that Buckethead will be remembered as the Beethoven
>>>> of
>>>> the early 21st century ;) ...
>>>>
>>>> For me the ultimate is Prometheus, by Scriabin, though...
>>>>

>>>> <https://www.youtube.com/watch?v=5GEwho6Dbnc>

>>>>

>>>> do you know it? Wow.... This is cognitive and emotional

>>>> development

>>>> beyond the ordinary human level, such as only a true genius madman

>>>> could produce. I had an amazing mental experience in San Francisco

>>>> in 2012 listening to Prometheus 10 times in succession ... try it

>>>> sometime...

>>>>

>>>>

>>>>

>>>> On Mon, Jul 11, 2016 at 9:39 AM, jeffrey E. <jeevacation@gmail.com>

>>>> wrote:

>>>> > looking for AI and music. . a melody is a strange object, it

>>>> > is

>>>> > an

>>>> > inter

>>>> > as well as intra relation with notes and time. . there are

>>>> > inherent

>>>> > harmonies. and dissonance. . what i wrote to chonsky this

>>>> > moring

>>>> >

>>>> > today I conducted an experiment encouraged by Noam's wholly

>>>> > justified

>>>> > aggressive and detailed directives to joscha. . joshcha focused

>>>> > on

>>>> > layers

>>>> > being developed in the brain . the timing for the development of

>>>> > each

>>>> > layer

>>>> > being different per species .

>>>> > I postulate that music might be a frosted window into that

>>>> > structure.

>>>> > symphonies begin with their first " layer " a theme. in fact ,

>>>> > there

>>>> > might be more than one theme in the first layer , , the second

>>>> > part

>>>> > of

>>>> > symphonic form is the complex development stage. where those

>>>> > themes

>>>> > are inverted, deconstructed , reconstructed etc ,and the

>>>> > development

>>>> > stage

>>>> > takes the most time . in the conclusion of the symphonic form

>>>> > the

>>>> > recapitulation of all that has come before it forms a " phenenoma

>>>> > of

>>>> > the

>>>> > piece " a whole ,made up of its smaller concepts . As opposed

>>>> > to

>>>> > listening to music to record which neuron is firing, as most

>>>> > musciologists

>>>> > attempt . I propose that the music may be the audible result of

>>>> > those

>>>>> > neurons firing, made possible by a select few who would attempt
>>>>> > to
>>>>> > notate
>>>>> > those neuronal firings. Beethoven for example.
>>>>> >
>>>>> > The experiment . I mashed all of the four symphonies together
>>>>> > ,
>>>>> > playing recordings of the 3rd 5th 6th 7th all overlaid on
>>>>> > each
>>>>> > other,
>>>>> > playing at the same time. - the way a brain might develop. I
>>>>> > expected
>>>>> > an
>>>>> > ordered noise but to the surprising contrary , IT WAS
>>>>> > AMAZING.
>>>>> > .
>>>>> > you can hear new "concepts " forming,
>>>>> >
>>>>> > if wonder whether in the mind of a blind child , the " music"
>>>>> > would
>>>>> > be
>>>>> > created even without the visual referencial. but created none
>>>>> > the
>>>>> > less.
>>>>> > later when the visual can be tied to concepts , the anatomy may
>>>>> > be
>>>>> > hijacked
>>>>> > to produce sounds . that somehow relate to the concepts. .
>>>>> >
>>>>> > I tried to mix music from different cultures- it didn't work.
>>>>> > African
>>>>> > does not work with western europe,- chinese works with neither of
>>>>> > the
>>>>> > other
>>>>> > two. but within the same cultural music (the brain of the
>>>>> > local
>>>>> > species
>>>>> >) the mash ups are beautiful.
>>>>> >
>>>>> > I would note that computers engage in "parallel processing" only
>>>>> > in
>>>>> > order
>>>>> > to take a hard problem and break it into its component parts ,
>>>>> > working
>>>>> > on
>>>>> > each component separately, , here each problem Interacts and
>>>>> > the
>>>>> > their
>>>>> > resolutions interact in remarkable ways.
>>>>> > --
>>>>> >
>>>>> > On Sun, Jul 10, 2016 at 9:37 PM, Ben Goertzel [REDACTED]
>>>>> > wrote:
>>>>> >>

>>>>>> (i.e. being a "fiscal sponsor" for the HLAI/AGI conference is
>>>>>> within
>>>>>> Humanity+'s mandate as a 501(c)3, so there's no problem here...)
>>>>>>
>>>>>> On Mon, Jul 11, 2016 at 9:36 AM, Ben Goertzel <[REDACTED]>
>>>>>> wrote:
>>>>>>> We can route the donation through Humanity+, which is a 501(c)3
>>>>>>> ...
>>>>>>> as
>>>>>>> we have done with some of your previous donations for my
>>>>>>> research...
>>>>>>>
>>>>>>> On Mon, Jul 11, 2016 at 9:33 AM, jeffrey E.
>>>>>>> <jeevacation@gmail.com>
>>>>>>> wrote:
>>>>>>>> is it a 501 c 3
>>>>>>>>
>>>>>>>> On Sun, Jul 10, 2016 at 9:30 PM, Ben Goertzel
>>>>>>>> <ben@goertzel.org>
>>>>>>>> wrote:
>>>>>>>>>
>>>>>>>>> Hey there,
>>>>>>>>>
>>>>>>>>> Hope you're well...
>>>>>>>>>
>>>>>>>>> I'll send you another email about connecting this summer
>>>>>>>>> while
>>>>>>>>> I'm
>>>>>>>>> in
>>>>>>>>> the US if you'll be around...
>>>>>>>>>
>>>>>>>>> This email pertains to the AGI-16 / Human-Level AI conference
>>>>>>>>> which
>>>>>>>>> occurs upcoming week in New York (July 16-19)... at the New
>>>>>>>>> School.
>>>>>>>>>
>>>>>>>>> We are doing the last-minute nitty-gritty conference planning
>>>>>>>>> and
>>>>>>>>> find
>>>>>>>>> ourselves short on cash for snacks and for drinks at the
>>>>>>>>> conference
>>>>>>>>> reception / poster-session ... (the New School venue proved
>>>>>>>>> more
>>>>>>>>> costly than planned... we chose New School as an old college
>>>>>>>>> friend
>>>>>>>>> of
>>>>>>>>> mine is a prof and administrator there...)
>>>>>>>>>
>>>>>>>>> So I'm wondering if you might be willing to do a US\$3000
>>>>>>>>> sponsorship
>>>>>>>>> (we have two other sponsors at the US\$3000 level: Vicarious
>>>>>>>>> Systems,
>>>>>>>>> and Demiurge Technologies)... (We don't actually need the
>>>>>>>>> \$\$

>>>>>>>>> wired
>>>>>>>>> immediately, a commitment is enough)...
>>>>>>>>>
>>>>>>>>> We can then serve everyone "drinks and snacks courtesy of
>>>>>>>>> Jeffrey
>>>>>>>>> Epstein Foundation", or whatever foundation name you prefer
>>>>>>>>> (or
>>>>>>>>> just
>>>>>>>>> keep it quiet if you prefer)
>>>>>>>>>
>>>>>>>>> This is not insanely critical, but it would be a help... I
>>>>>>>>> believe
>>>>>>>>> these conferences are still quite valuable in terms of
>>>>>>>>> keeping
>>>>>>>>> free
>>>>>>>>> and open dialogue about AGI going in the research community,
>>>>>>>>> as
>>>>>>>>> opposed to having AGI work entirely sucked into the
>>>>>>>>> proprietary
>>>>>>>>> halls
>>>>>>>>> of big companies...
>>>>>>>>>
>>>>>>>>> thanks
>>>>>>>>> Ben
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> --
>>>>>>>>> Ben Goertzel, PhD
>>>>>>>>> <http://goertzel.org>
>>>>>>>>>
>>>>>>>>> Super-benevolent super-intelligence is the thought the Global
>>>>>>>>> Brain
>>>>>>>>> is
>>>>>>>>> currently struggling to form...
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>>
>>>>>>>>> --
>>>>>>>>> please note
>>>>>>>>> The information contained in this communication is
>>>>>>>>> confidential, may be attorney-client privileged, may
>>>>>>>>> constitute inside information, and is intended only for
>>>>>>>>> the use of the addressee. It is the property of
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>>>>
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>>>> Ben Goertzel, PhD
>>>> <http://goertzel.org>
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