From: Igor Ganichev <iga@google.com>
To: Tomasz Kornuta <tkornut@us.ibm.com>
Cc: Robert Guangyu Yang <gyyang.neuro@gmail.com>, vincent albouy <vincent.albouy@ibm.com>

Date: Tuesday, September 10, 2019 09:46AM
Subject: [EXTERNAL] Re: COG Research

For Follow up: Normal Priority.

History: This message has been replied to and forwarded.

Here are the numbers for the hard version:

GoShapeOf 0.235312506557
GoColorOf 0.236562505364
CompareShapeGo 0.260788798332
CompareColorGo 0.265039235353
CompareColor 0.501268386841
ExistLastShapeSameColor 0.50385415554
ExistLastColorSameShape 0.504374980927
ExistColorSpaceGo 0.504474818707
CompareShape 0.504706263542
ExistShapeSpaceGo 0.507054269314
AndCompareShape 0.507546007633
AndCompareColor 0.513917148113
ExistSpaceGo 0.552960216999
ExistLastObjectSameObject 0.602609395981
ExistGo 0.651248276234
ExistColorGo 0.683356702328
SimpleCompareColorGo 0.683469951153
ExistShapeGo 0.683690845966
SimpleCompareShapeGo 0.703966498375
ExistShapeOf 0.726766884327
ExistColorOf 0.73111063242
avg 0.74200797081
AndSimpleCompareShape 0.779467403889
AndSimpleCompareColor 0.781968832016
ExistColorSpace 0.891612827778
AndSimpleExistShapeGo 0.895784258842
ExistShapeSpace 0.898623526096
ExistColor 0.898763000965
GetShapeSpace 0.903381228447
AndSimpleExistColorGo 0.90595382452
GetColorSpace 0.923373281956
ExistShape 0.92553383112
ExistSpace 0.928750753403
GoColor 0.964637339115

GetShape 0.971285462379
GoShape 0.973471820354
GetColor 0.97975975275
Go 0.992426991463
Exist 0.993033826351
SimpleCompareColor 0.993230044842
SimpleCompareShape 0.993318498135
AndSimpleExistGo 0.99582028389
SimpleExistGo 0.99606770277
SimpleExistShapeGo 0.998111963272
SimpleExistColorGo 0.999895811081
Mean: 0.7420079714722103

On Tue, Sep 10, 2019 at 4:54 AM Tomasz Kornuta <tkornut@us.ibm.com> wrote:

> Hi all,
>
> Thanks, this is really helpful. And if you could dig out the results for the Hard dataset it would be simply AWESOME! ;)
>
> Thanks,
> Tomasz
>
> Sent from IBM Verse
>
> Igor Ganichev --- [EXTERNAL] Re: COG Research ---
>
> From: "Igor Ganichev" <iga@google.com>
> To: "Robert Guangyu Yang" <gyyang.neuro@gmail.com>, vincent.albouy@ibm.com, tkornut@us.ibm.com
> Date: Mon, Sep 9, 2019 17:32
> Subject: [EXTERNAL] Re: COG Research
>
> ---
>
> Hi guys,
>
> I received a couple of requests at the same time. Replying to all.
>
> I did not find the actual numbers we used in the paper, but redownloading some TensorBoard summaries from some runs. I got these for best canonical results:
>
> CompareShapeGo 0.638224363327
> CompareColorGo 0.677678883076
> AndCompareShape 0.79989439249
> AndCompareColor 0.81871342659
> ExistSpaceGo 0.846724629402
> ExistShapeSpaceGo 0.871897995472
> ExistColorSpaceGo 0.919593393803
> ExistGo 0.941202878952
> ExistShapeGo 0.950391590595
> ExistColorGo 0.953208208084
> SimpleCompareColorGo 0.95672494173

SimpleCompareShapeGo 0.956992268562
AndSimpleExistShapeGo 0.972418189049
AndSimpleExistColorGo 0.980001330376
ExistLastObjectSameObject 0.980163097382
GetShapeSpace 0.981132090092
GetColorSpace 0.981707334518
ExistShapeSpace 0.983783781528
ExistSpace 0.988636374474
ExistColorSpace 0.988826811314
ExistColor 0.989583313465
CompareColor 0.99206250906
CompareShape 0.994047641754
AndSimpleCompareColor 0.996592283249
ExistColorOf 0.996911764145
GoShape 1.0
GetShape 1.0
SimpleCompareColor 1.0
SimpleCompareShape 1.0
GoColorOf 1.0
SimpleExistShapeGo 1.0
ExistShapeOf 1.0
SimpleExistGo 1.0
AndSimpleCompareShape 1.0
ExistLastColorSameShape 1.0
GoColor 1.0
SimpleExistColorGo 1.0
ExistLastShapeSameColor 1.0
AndSimpleExistGo 1.0
ExistShape 1.0
GetColor 1.0
GoShapeOf 1.0
Exist 1.0
Go 1.0

I need to run now, but I think I found some traces of COG HARD runs as well. I should be able to extract the same info from them tomorrow morning.

Hope this helps,
Igor

On Mon, Sep 9, 2019 at 4:08 PM Robert Guangyu Yang <gyyang.neuro@gmail.com> wrote:

> Hi, Igor,
>
> Hope you are well!
>
> As you know, I don't have any result that's not in the paper. Could you answer this question forwarded here? Thanks!
>
> Robert

---------- Forwarded message ---------
From: **vincent albouy** <vincent.albouy@ibm.com>
Date: Mon, Sep 9, 2019 at 6:30 PM
Subject: COG Research
To: <robert.yang@columbia.edu>

Hi Robert,

I am Vincent Albouy from IBM Research in Almaden Research Center, California.
I am working on the COG Dataset and I would like to know if you have a full results table Canonical + Hard fly task type.
It would be very helpful.

Many thanks,

--
Robert Guangyu Yang
Postdoctoral Research Scientist and Simons Junior Fellow
Zuckerman Institute, Columbia University