

Iterative, Multiplayer Research



January 2023



Accounts Needed for Pt. 2, Competition

kaggle.com

wandb.ai

colab.research.google.com



The W&B Course

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The Goal

Table 3: Detection results on **PASCAL VOC 2007 test set**. The detector is Fast R-CNN and VGG-16. Training data: "07": VOC 2007 trainval, "07+12": union set of VOC 2007 trainval and VOC 2012 trainval. For RPN, the train-time proposals for Fast R-CNN are 2000. [†]: this number was reported in [2]; using the repository provided by this paper, this result is higher (68.1).

method	# proposals	data	mAP (%)
SS	2000	07	66.9 [†]
SS	2000	07+12	70.0
RPN+VGG, unshared	300	07	68.5
RPN+VGG, shared	300	07	69.9
RPN+VGG, shared	300	07+12	73.2
RPN+VGG, shared	300	COCO+07+12	78.8

Table 4: Detection results on **PASCAL VOC 2012 test set**. The detector is Fast R-CNN and VGG-16. Training data: "07": VOC 2007 trainval, "07++12": union set of VOC 2007 trainval+test and VOC 2012 trainval. For RPN, the train-time proposals for Fast R-CNN are 2010. [†]: http://host.robots.ox.ac.uk/8080/anonymous/YED/LXB.html. [§]: http://host.robots.ox.ac.uk/8080/anonymous/XED/H10.html.

# proposals	data	mAP (%)
2000	12	65.7
2000	07++12	68.4
300	12	67.0
300	07++12	70.4
300	COCO+07++12	75.9
	# proposals 2000 2000 300 300 300	# proposals data 2000 12 2000 07++12 300 12 300 07++12 300 COCO+07++12

Table 5: **Timing** (ms) on a K40 GPU, except SS proposal is evaluated in a CPU. "Region-wise" includes NMS, pooling, fully-connected, and softmax layers. See our released code for the profiling of running time.

model	system	conv	proposal	region-wise	total	rate	_
VGG	SS + Fast R-CNN	146	1510	174	1830	0.5 fps	
VGG	RPN + Fast R-CNN	141	10	47	198	5 fps	
ZF	RPN + Fast R-CNN	31	3	25	59	17 fps	

	backbone	AP	AP_{50}	AP ₇₅	AP_S	AP_M	AP_L
Two-stage methods							
Faster R-CNN+++ [5]	ResNet-101-C4	34.9	55.7	37.4	15.6	38.7	50.9
Faster R-CNN w FPN [8]	ResNet-101-FPN	36.2	59.1	39.0	18.2	39.0	48.2
Faster R-CNN by G-RMI [6]	Inception-ResNet-v2 [21]	34.7	55.5	36.7	13.5	38.1	52.0
Faster R-CNN w TDM [20]	Inception-ResNet-v2-TDM	36.8	57.7	39.2	16.2	39.8	52.1
One-stage methods							
YOLOv2 [15]	DarkNet-19 [15]	21.6	44.0	19.2	5.0	22.4	35.5
SSD513 [11, 3]	ResNet-101-SSD	31.2	50.4	33.3	10.2	34.5	49.8
DSSD513 [3]	ResNet-101-DSSD	33.2	53.3	35.2	13.0	35.4	51.1
RetinaNet [9]	ResNet-101-FPN	39.1	59.1	42.3	21.8	42.7	50.2
RetinaNet [9]	ResNeXt-101-FPN	40.8	61.1	44.1	24.1	44.2	51.2
YOLOv3 608×608	Darknet-53	33.0	57.9	34.4	18.3	35.4	41.9

0000 p1 DRZ 3.11 - not super eval	0001 p2 DRZ 3.23
mag threshold 0.21	mag threshold 0.12
2L 300N BLSTM (BasicLSTM)	2L 300N BLSTM clean (LSTM & many
20D	reworks) - note, this was the
sigmoid	massive model rewrite
AdamOptimizer	20D
100 frames	sigmoid
dropout 1.0	AdamOptimizer
zero input and label	100 frames
log(x+1.0)	dropout 1.0
103300 training, 2000 CV	zero input and label
model:	log(x+1.0)
weights20170224-005946_v10.1419	10330 training, 2000 CV
(p1, loss .1419, epoch 40 [task0])	model:
MEAN IBM SDR GAIN: 2.324 -	weights20170224-032054_v10.1418
with 0.15 thresh during cluster	(p2, loss .1418, epoch 40 [task0])
STD IBM SDR GAIN: 2.276	MEAN IBM SDR GAIN: 2.056 -
MEAN IBM SDR GAIN: 2.110 -	with 0.15 thresh during cluster
with 0.32 threshold during cluster	STD IBM SDR GAIN: 2.214
STD IBM SDR GAIN: 2.254	MEAN IBM SDR GAIN: 2.068 -
	with 0.32 threshold during cluster
	STD IBM SDR GAIN: 2.205
	MEAN IBM SDR GAIN: 2.108 - with
	fancy best SDR of the two system
	(eval_sdr2.py)
	STD IBM SDR GAIN: 4.114
	MEAN IBM SDR GAIN: 5.915 -
	using EXACT script measuring both
	voices gain (SUPER_EVAL)
	STD IBM SDR GAIN: 4.349

<pre>00 p1 DRZ 3.11 - not sup g threshold 0.21 . 300N BLSTM (BasicLSTM) lp igmoid hamOptimizer 00 frames copout 1.0 ero input and label g(x+1.0) 03300 training, 2000 CV</pre>	er eval mag_threshold 0.1 2L 300N BLSTM_cle reworks) - note, massive model rew 20D sigmoid AdamOptimizer 100 frames dropout 1.0 zero input and la	2 an (LSTM & many this was the rite bel					
eights20170224-005946_v10	А	B 🖣	▶ L	М	N	0	Р
EAN IBM SDR GAIN: 2.	Experiment Name	Created	train_loss	valid_loss	acc	traffic_acc	road_acc
TD IBM SDR GAIN: 2. EAN IBM SDR GAIN: 2.	best car acc (50% data)	2021-04-14	0.5375041962	0.442730248	0.8823291659	0.8663836718	0.9399003386
ith 0.32 threshold during TD IBM SDR GAIN: 2.	best traffic acc (50% data))	2021-04-14	0.4919361174	0.4202951491	0.8879730701	0.8718349934	0.9439761043
	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0.8725891709	0.8592621684	0.9359762073
	major-sweep-196	2021-01-31	0.5705417991	0.4875227213	0.8698127866	0.8570468426	0.9454026222
	swept-sweep-164	2021-01-31	0.5535062551	0.4849829972	0.8701210618	0.8567070365	0.9204238057
	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	0.871628046	0.846842885	0.9262287617
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	0.8705932498	0.8521561027	0.9389513731
	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	0.8738754392	0.8612990975	0.913561523
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	0.8785927892	0.8512274623	0.9295567274
	hopeful-sweep-33	2021-01-31	0.503461957	0.4650281966	0.8706912994	0.8560319543	0.9387732744
	autumn-sweep-24	2021-01-31	0.5777919888	0.500880897	0.8755427003	0.8561192751	0.9181208611
	decent-sweep-21	2021-01-31	0.5714729428	0.4979581237	0.8745227456	0.8490597606	0.9463140965
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	0.8732874393	0.8601382971	0.9297611117
	Second best acc	2021-01-31	0.4194990396	0.4509823024	0.8873019218	0.8705806732	0.9445936084

0000 pl DRZ 3.11 - not sup mag threshold 0.21 21 300N BLSTM (BasicLSTM) 20D sigmoid AdamOptimizer 100 frames dropout 1.0 zero input and label log(x+1.0) 103300 training, 2000 CV	er eval 0001 p2 DRZ 3.23 mag_threshold 0.1 2L 300N BLSTM_cle reworks) - note, massive model rew 20D sigmoid AdamOptimizer 100 frames dropout 1.0 zero input and la	2 an (LSTM & many this was the rite bel							
weights20170224-005946_v10	А	B 🖣	▶ L	Μ	Ν	0	Р		
MEAN IBM SDR GAIN: 2. with 0.15 thresh during cl	Experiment Name	Created	train_loss	valid_loss	acc	traffic_acc	road_acc		
STD IBM SDR GAIN: 2. MEAN IBM SDR GAIN: 2.	best car acc (50% data)	2021-04-14	0.5375041962	0.442730248	0.8823291659	0.8663836718	0.9399003386		
with 0.32 threshold during STD IBM SDR GAIN: 2.	best traffic acc (50% data))	2021-04-14	0.4919361174	0.4202951491	0.8879730701	0.8718349934	0.9439761043		
	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0 8725891709	0.8592621684	0 9359762073		
	major-sweep-196	2021-01-31	0.5705417991	0.4875227213	TensorBoard	SCALARS		> INACTIVE - C	🌣 🕐
	swept-sweep-164	2021-01-31	0.5535062551	0.4849829972		<u> </u>			
	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	Show data dov	vnload links	$old \lambda$ Filter tags (regular e	xpressions supported)	
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	Ignore outliers	in chart scaling			
_	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	Tooltip sorting	default 👻	accuracy		
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	method:		cross entropy		1
	hopeful-sweep-33	2021-01-31	0.503461957	0.4650281966	Smoothing		cross entropy		
	autumn-sweep-24	2021-01-31	0.5777919888	0.500880897		0.6	0.0550		
	decent-sweep-21	2021-01-31	0.5714729428	0.4979581237			0.0450		
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	Horizontal Axis		0.0350		
	Second best acc	2021-01-31	0.4194990396	0.4509823024	STEP RELAT	TIVE WALL	0.0250	The later of the second	
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STD IBM SDR GAIN: 2. MEAN IBM SDR GAIN: 2.	best car acc (50% data)	2021-04-14	0.5375041962	0.442730248	0.8823291659	0.8663836718	0.9399003386		
with 0.32 threshold during STD IBM SDR GAIN: 2.	best traffic acc (50% data))	2021-04-14	0.4919361174	0.4202951491	0.8879730701	0.8718349934	0.9439761043		
	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0.8725801700	0.8502621684	0.0250762072		
	major-sweep-196	2021-01-31	0.5705417991	0.4875227213					
	swept-sweep-164	2021-01-31	0.5535062551	0.4849829972					
	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	Show data dow	wnload links	🔍 Filter tags (regular e	expressions supported)	
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	Ignore outliers	in chart scaling			
_	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	Tooltip sorting	default -	accuracy		
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	method:		cross entropy		
	hopeful-sweep-33	2021-01-31	0.503461957	0.4650281966	Smoothing		cross entropy		
$\langle - \rangle$	autumn-sweep-24	2021-01-31	0.5777919888	0.500880897		0.6	0.0550		
	decent-sweep-21	2021-01-31	0.5714729428	0.4979581237			0.0450		
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	Horizontal Axis		0.0350		
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	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0 9725901700	0.8502624684	0.0250762072		_
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	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	Show data dow	wnicad links	🞗 Filter tags (regular e	expressions supported)	
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	Ignore outliers	in chart scaling			
_	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	Tooltip sorting	default -	accuracy		<u> </u>
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	method:		cross entropy		1
	hopeful-sweep-33	2021-01-31	0.503461957	0.4650281966	Smoothing		cross entropy		- 1
$\langle - \rangle$	autumn-sweep-24	2021-01-31	0.5777919888	0.500880897		0.6	0.0550		- 1
	decent-sweep-21	2021-01-31	0.5714729428	0.4979581237			0.0450		- 1
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	Horizontal Axis		0.0350	Number of Street	- 1
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ld during 2.	best traffic acc (50% data))	2021-04-14	0.4919361174	0.4202951491	0.8879730701	0.8718349934	0.9439761043		
	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0.8725801700	0.850262168/	0.0250762072		_
	major-sweep-196	2021-01-31	0.5705417991	0.4875227213	TensorBoard				2 <b>0</b>
	swept-sweep-164	2021-01-31	0.5535062551	0.4849829972					
	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	Show data do	unicad links	Q Filter tags (regular	expressions supported)	
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	Ignore outliers	in chart scaling			
	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	Tooltin sorting	default -	accuracy		
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	method:		cross entropy		
	hopeful-sweep-33	2021-01-31	0.503461957	0.4650281966	Consthing		cross antropy		
	autumn-sweep-24	2021-01-31	0.5777919888	0.500880897	childrening		0.0550		
	decent-sweep-21	2021-01-31	0.5714729428	0.4979581237		0.0	0.0450		
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	Horizontal Avia		0.0350	NIL .	
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GAIN: 2. CGAIN: 2.	best car acc (50% data)	2021-04-14	0.5375041962	0.442730248	0.8823291659	0.8663836718	3 0.9399003386			
GAIN: 2,	best traffic acc (50% data))	2021-04-14	0.4919361174	0.4202951491	0.8879730701	0.8718349934	0.9439761043			
	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0.9725901700	0.950262169/	0.0250762072			-
	major-sweep-196	2021-01-31	0.5705417991	0.4875227213	TensorBoard					
	swept-sweep-164	2021-01-31	0.5535062551	0.4849829972						
	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	Show data dow	inload links	🔍 Filter tags (regular e	expressions supported)		
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	Ignore outliers	in chart scaling				
	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	Tooltip sorting	default -	accuracy			_
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	method:		cross entropy			
	hopeful-sweep-33	2021-01-31	0.503461957	0.4650281966	Smoothing		cross entropy			- 1
	autumn-sweep-24	2021-01-31	0.5777919888	0.500880897		0.6	0.0550			- 1
ן יר	decent-sweep-21	2021-01-31	0.5714729428	0.4979581237			0.0450			- 1
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	Horizontal Axis		0.0350	N. H. H.		- 1
	Second best acc	2021-01-31	0.4194990396	0.4509823024	STEP RELAT	TIVE WALL	0.0250	The last of the second		1
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R GAIN: 2. hresh during cl	Experiment Name	Created	train_loss	valid_loss	acc	traffic_acc	road_acc	
GAINI 2. R GAIN: 2.	best car acc (50% data)	2021-04-14	0.5375041962	0.442730248	0.8823291659	0.8663836718	0.9399003386	
GAIN: 2.	best traffic acc (50% data))	2021-04-14	0.4919361174	0.4202951491	0.8879730701	0.8718349934	0.9439761043	
	best overall IOU (20% data)	2021-04-14	0.5095784068	0.4658596516	0.9725901700	0.9502621694	0.0250762072	
	major-sweep-196	2021-01-31	0.5705417991	0.4875227213	TensorBoard			> INACTIVE - C 🗯
	swept-sweep-164	2021-01-31	0.5535062551	0.4849829972				
	silver-sweep-139	2021-01-31	0.563354373	0.5251165628	Show data do	enload links	A Filter tags (regular e	expressions supported)
	laced-sweep-115	2021-01-31	0.5277443528	0.5124291778	I lance outliers	in chart scaling		
	eager-sweep-97	2021-01-31	0.5488699675	0.5005864501	Too bis south a	default	accuracy	
	rich-sweep-88	2021-01-31	0.5587444901	0.5211353302	method:	derault +	cross entropy	
	honeful.sween.33	2021-01-31	0 503461957	0 4650281966				
$\neg$	autumo ewoop 24	2021 01 31	0.5777010888	0.500990997	Smoothing		cross entropy	
> I	decent sweep-24	2021-01-31	0.5714720428	0.4070591227		0.6	0.0550	
"	vogue gween E	2021-01-31	0.60000004000	0.472508050			0.0450	
	vague-sweep-5	2021-01-31	0.6230331063	0.473508656	Horizontal Axis		0.0250	
	Second best acc	2021-01-31	0.4194990396	0.4509823024	STEP RELA	TIVE WALL	0.0150	The second states
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 C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C</td></td<>	<u>INACTIVE</u> C     C     C     C     C     C     C    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  C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C
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# Just Stop



October 2022

# Three principles of an ideal ML workflow



#### **Rapidly iterate**

to continuously refine and optimize models



### Reproduce

to reduce key-person dependencies



#### Collaborate

to ensure knowledge transfer across the organization

# Three principles of an ideal ML workflow

#### Rapidly iterate

to continuously refine and optimize models



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#### Reproduce

to reduce key-person dependencies



#### Collaborate

to ensure knowledge transfer across the organization

### A system of record for all ML workflows



### A system of record for all ML workflows







<ul> <li>Name (44 visualized)</li> </ul>	train_data	test_data	test_acc	loss	
● ▼ Group: double_5K 2 3	5K	["half_full","large"]	0.8748	0.2345	2.5
💿 🛑 🕨 Job Type: eval 💈	5K	["half_full","large"]	0.8748		2
💿 🛑 🕨 Job Type: train_model	5K			0.2345	1
● ▼ Group: baseline_5K 2 3	5K	["half_full","large"]	0.8385	0.005867	0.5
I Job Type: eval 2	5K	["half_full","large"]	0.8385		0
Iob Type: train_model	5K			0.005867	
Group: baseline_accessories	accessories	["half_full","large","r	0.3466	0.06003	✓ Experime
💿 🛑 🕨 Job Type: eval 🏼 4	accessories	["half_full","large","r	0.3466		0
💿 🛑 🕨 Job Type: train_model	accessories	-		0.06003	
● ▼ Group: baseline_clothes 2	clothes	["half_full","large","r	0.5365	0.2822	co
💿 🛑 🕨 Job Type: eval 🏼 4	clothes	["half_full","large","r	0.5365	÷	ep
💿 🛑 🕨 Job Type: train_model	clothes			0.2822	11_
● ▼ Group: baseline 2 5	all	["half_full","large","r	0.826	0.1976	lr
● ▶ Job Type: eval 4	all	["half_full","large","r	0.826		tes
● ▶ Job Type: train_model	all		-	0.1976	✓ Tables :
● ▼ Group: double 2 5	accessories	["half_full","large","r	0.3396	0.01346	
💿 🔵 🕨 Job Type: eval 🏼 4	accessories	["half_full","large","r	0.3396		runs. s
<ul> <li>Job Type: train_model</li> </ul>	accessories		-	0.01346	Ŧ
● ▼ Group: double_clothes 2	clothes	["half_full","large","r	0.5485	1.379	1
● ► Job Type: eval 4	clothes	["half_full","large","r	0.5485		
💿 🔵 🕨 Job Type: train_model	clothes		-	1.379	
I Group: double_all 2 5	all	["half_full","large","r	0.7535	0.004875	2
			1-9 - of 9	1 6 5	



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# A system of record for all ML workflows

#### Get started in 60 seconds

	!pip	install	wandb	#	Install	W&B
--	------	---------	-------	---	---------	-----

wandb.init() # S
wandb.log(metrics) # L

# Start experiment
ics) # Log metrics + more!

<ul> <li>Name (44 visualized)</li> </ul>	train_data	test_data	test_acc	loss	
● ▼ Group: double_5K 2 3	5K	["half_full","large"]	0.8748	0.2345	2.5
I Job Type: eval 2	5K	["half_full","large"]	0.8748		2
💿 🔵 🕨 Job Type: train_model	5K			0.2345	1.5
● ▼ Group: baseline_5K 2 3	5K	["half_full","large"]	0.8385	0.005867	0.5
I Job Type: eval 2	5K	["half_full","large"]	0.8385		0
💿 🔵 🕨 Job Type: train_model	5K		-	0.005867	
Group: baseline_accessories	accessories	["half_full","large","r	0.3466	0.06003	✓ Expe
💿 😑 🕨 Job Type: eval 🌾	accessories	["half_full","large","r	0.3466		
Iob Type: train_model	accessories			0.06003	
Group: baseline_clothes 2	clothes	["half_full","large","r	0.5365	0.2822	
I Job Type: eval 4	clothes	["half full","large","r	0.5365	-	
I Job Type: train model	clothes			0.2822	
Group: baseline 2 5	all	["half_full""large""r	0.826	0.1976	
	all	["half_full""large""	0.926	012070	
Sob Type, eval	-11	[ nati_tutt , targe , t	0.820	0.1070	
Job Type: train_model	au	-		0.1976	√ Table
● ♥ Group: double 2 5	accessories	["half_full","large","r	0.3396	0.01346	rur
I Job Type: eval 4	accessories	["half_full","large","r	0.3396	-	Ŧ
Iob Type: train_model	accessories	-	-	0.01346	1
Group: double_clothes 2	clothes	["half_full","large","r	0.5485	1.379	1
💿 🔵 🕨 Job Type: eval 🏼 4	clothes	["half_full","large","r	0.5485	-	
Iob Type: train_model	clothes		-	1.379	
Sroup: double_all 2 5	all	["half_full","large","r	0.7535	0.004875	2
			1-9 - of	9 < >	







# Yes, you really can get started in 60 seconds.



# A system of record for wandb.Image





# A system of record for wandb.Object3D



Experiment Tracking

# A system of record for wandb.Audio

Whale song	Audio features	Spectrogra
▶ 00:00/00:07 ↓		







#### Experiment Tracking

# A system of record for wandb.plots.POS



📕 Experiment Tracking

# A system of record for wandb.Html





epublican Frequen

Frequent



# A system of record for all types of data!

COVID-19 main protease in complex with Z31792168



### wandb.Image

### wandb.Object3D

### wandb.log( wandb.Molecule )

### wandb.Video

### wandb.Html

For a complete set of types, visit docs.wandb.ai



# Ask questions about your data and models



**Tables – DataFrames with rich media support** 

### Ask questions about your data (and models)



**Tables – DataFrames with rich media support** 

### Ask questions about your data (and models)





#### **Tables – DataFrames with rich media support**

### Ask questions about your data (and models)




### How do I ask questions about non-tabular data?

### Ask questions about your data (and models)

#### X Classic DataFrames

img	label
image mode=RGB size=500x333 at 0x7F56F6360ED0>	samoyed
image mode=RGB size=443x435 at 0x7F56F6379BD0>	shiba_inu
image mode=RGB size=600x437 at 0x7F56F6379E50>	Egyptian_Mau
image mode=RGB size=375x500 at 0x7F56F6379F90>	Birman
image mode=RGB size=500x375 at 0x7F56F637B350>	great_pyrenees
	·
image mode=RGB size=500x335 at 0x7F56F623BD50>	Bengal
image mode=RGB size=403x500 at 0x7F56F623BF90>	leonberger
image mode=RGB size=500x375 at 0x7F56F6241390>	beagle
image mode=RGB size=192x288 at 0x7F56F62416D0>	Abyssinian
image mode=RGB size=288x300 at 0x7F56F6241910>	american_pit_bull_terrier

### Ask questions about your data (and models)

#### X Classic DataFrames

img	label
image mode=RGB size=500x333 at 0x7F56F6360ED0>	samoyed
image mode=RGB size=443x435 at 0x7F56F6379BD0>	shiba_inu
image mode=RGB size=600x437 at 0x7F56F6379E50>	Egyptian_Mau
image mode=RGB size=375x500 at 0x7F56F6379F90>	Birman
image mode=RGB size=500x375 at 0x7F56F637B350>	great_pyrenees
image mode=RGB size=500x335 at 0x7F56F623BD50>	Bengal
image mode=RGB size=403x500 at 0x7F56F623BF90>	leonberger
image mode=RGB size=500x375 at 0x7F56F6241390>	beagle
image mode=RGB size=192x288 at 0x7F56F62416D0>	Abyssinian
image mode=RGB size=288x300 at 0x7F56F6241910>	american_pit_bull_terrier





**Tables – DataFrames with rich media support** 

#### Ask questions about your data (and models)

#### **V** wandb.Table



#### Table.groupby("label")





### How do I ask questions about training?



### Easily and systematically search hyperparameters



Parameter importance with res	spect to	~
Q Search	င်္ဂ်ို Parameters	→ 1-10 - of 13 < >
Config parameter	Importance (i) 🗸	Correlation
learning_rate		
num_valid		
weight_decay		
num_train		
batch_size		
training_stages		
encoder.value_resnet34	l	
encoder.value_resnet18		
bn_weight_decay		

Sweeps – Easily search hyperparameters

### Ask questions about your data (and models)



### Three principles of an ideal ML workflow



#### **Rapidly iterate**

to continuously refine and optimize models



#### Reproduce

to reduce key-person dependencies



#### Collaborate

to ensure knowledge transfer across the organization





### Bad predictions!



### Bad predictions because of **training**?



### Bad predictions because of **pretrained models**?



### Bad predictions because of **preprocessing**?



### Bad predictions because of **raw data?**



# Bad predictions because of **multiprocessing**?









# How do you debug a model pipeline?





### Check the Code

### Problem with code? More than git diff



### What about the input/output artifacts?





### Check the inputs

### Bad predictions because of **Raw Data**



### **Good** predictions after reverting **Raw Data**





### Check the outputs

#### Tables – DataFrames with rich media support



### Three principles of an ideal ML workflow



#### **Rapidly iterate**

to continuously refine and optimize models



#### Reproduce

to reduce key-person dependencies



#### Collaborate

to ensure knowledge transfer across the organization











 Other
 Image
 <th

1980_000 1086_000

















<ul> <li>Name (44 visualized)</li> </ul>	train_data	test_data	test_acc	loss	
● ▼ Group: double_5K 2 3	5K	["half_full","large"]	0.8748	0.2345	
● ▶ Job Type: eval 2	5K	["half_full","large"]	0.8748		,
● ● ▶ Job Type: train_model	5K	÷	-	0.2345	
● ▼ Group: baseline_5K 2 3	5K	["half_full","large"]	0.8385	0.005867	0
● ► Job Type: eval 2	5K	["half_full","large"]	0.8385		
◎ ● ► Job Type: train_model	5K			0.005867	
● ▼ Group: baseline_accessories	accessories	["half_full","large","r	0.3466	0.06003	✓ Exp
● ► Job Type: eval 4	accessories	["half_full","large","r	0.3466		
● ● Job Type: train_model	accessories	-		0.06003	
● ▼ Group: baseline_clothes 2	clothes	["half_full","large","r	0.5365	0.2822	
● ► Job Type: eval 4	clothes	["half_full","large","r	0.5365		
💿 🛑 🕨 Job Type: train_model	clothes	÷	-	0.2822	
● ▼ Group: baseline 2 5	all	["half_full","large","r	0.826	0.1976	
● ▶ Job Type: eval 4	all	["half_full","large","r	0.826		
● ● Job Type: train_model	all	-	-	0.1976	V Tak
● <del>▼</del> Group: double 2 5	accessories	["half_full","large","r	0.3396	0.01346	
💿 🔵 🕨 Job Type: eval 🏼 4	accessories	["half_full","large","r	0.3396		r
● ● Job Type: train_model	accessories		2	0.01346	
● ▼ Group: double_clothes 2	clothes	["half_full","large","r	0.5485	1.379	
Iob Type: eval 4	clothes	["half_full","large","r	0.5485	-	
● ● Job Type: train_model	clothes		-	1.379	-
● Foroup: double_all 2 5	all	["half_full","large","r	0.7535	0.004875	



### Interactive Dashboards

#### Check any metrics



Gourab 6:26 PM

Cool report, what about policy loss and CPU utilization?



Andrew Truong 🐔 6:27 PM

I didn't think it was important — let me get back to you later...



Gourab 6:28 PM

It seems you don't think anything I suggest as important.

#### Interactive Dashboards

### Check any metrics



Gourab 6:26 PM

Cool report, what about policy loss and CPU utilization?



Andrew Truong 🍒 6:27 PM

l didn't think it was important — le

А	Q Search projects	Q Search panels			
A	brain-tumor-test-viz	charts			
	a)not cat	charts/episode_reward			
1	gznet-cqt	charts/episode_reward/AttackRe			
	trace	charts/episode_reward/Produce			
	hf-flax-alberti-poetry	charts/enisode_reward/Produce			
	hf-flax-gpt2-tamil				
	hf-flax-transcoder	charts/episode_reward/ProduceworkerRev			
	hf-flax-roberta-marathi	charts/episode_reward/Resourc			
	custom volov5	charts/episode_reward/WinLoss	0		
	cloop DI	charts/learning_rate			
	CleankL	charts/sps			
	nutorch mnist sagomakor				



### Unified Reporting and Dashboarding



## Open Source Research





### The world's leading ML teams trust us







### The top open source research orgs use us



**OpenFold** 



# Integrations



### Fits into your workflow




# **Competition Time!**

## wandb.me/xx



### The W&B Course

#### www.wandb.courses



## **Thank You!**



### Join us and our ML community!



- Fully Connected wandb.me/fc
- YouTube wandb.me/youtube
- Twitter wandb.me/twitter



# Appendix



October 2022



#### Andrew's Presentation

https://www.youtube.com/watch?v=Se1HvbAM0O4&t=12s