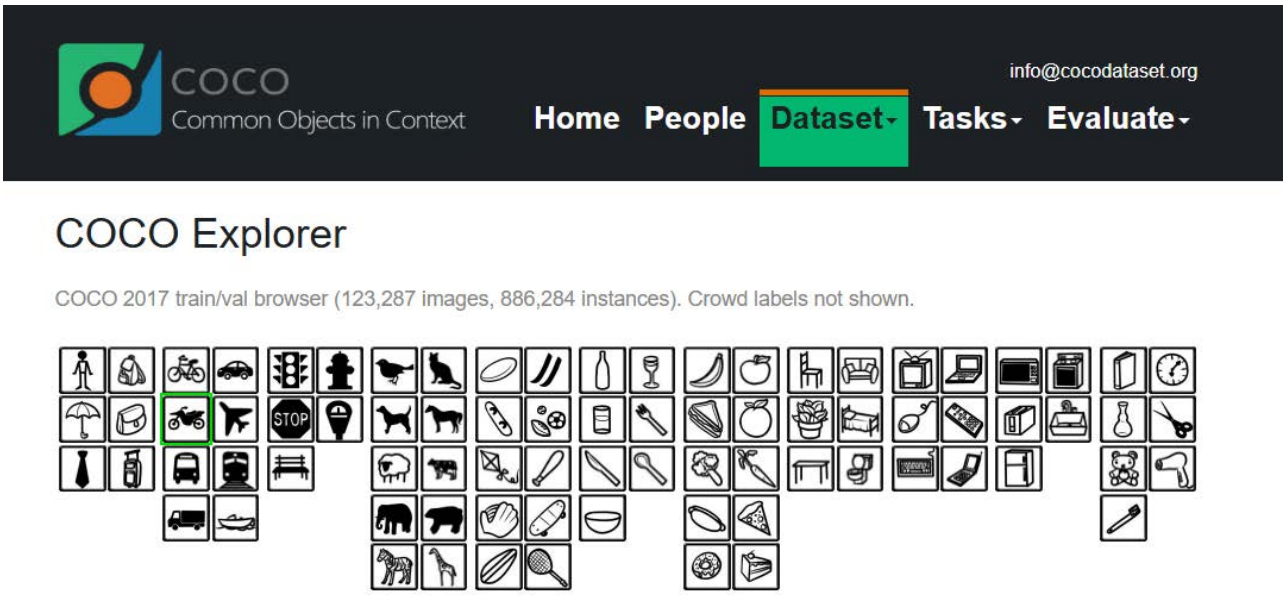
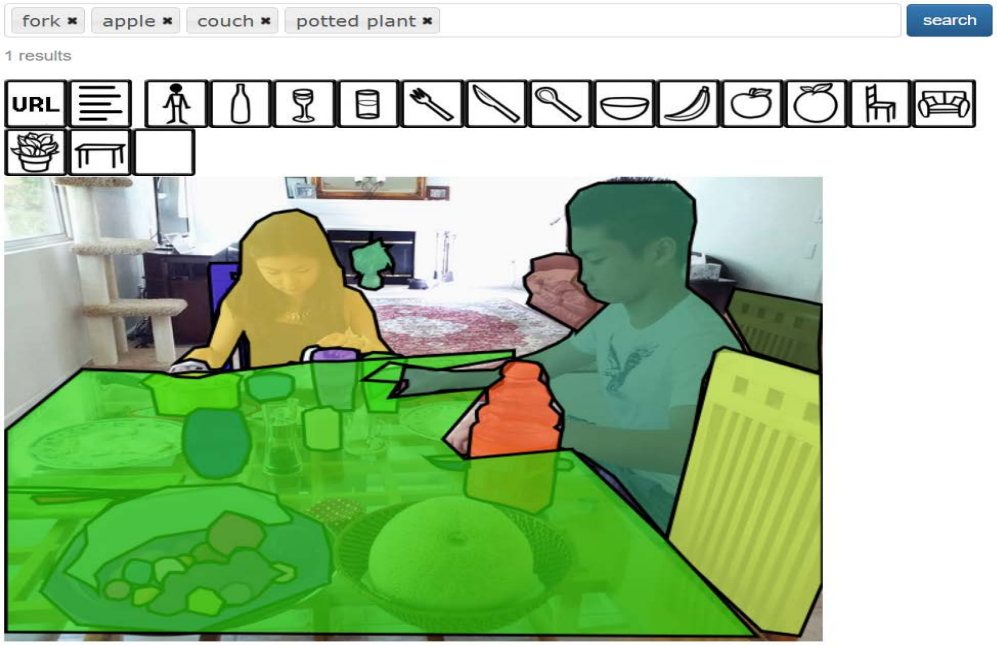
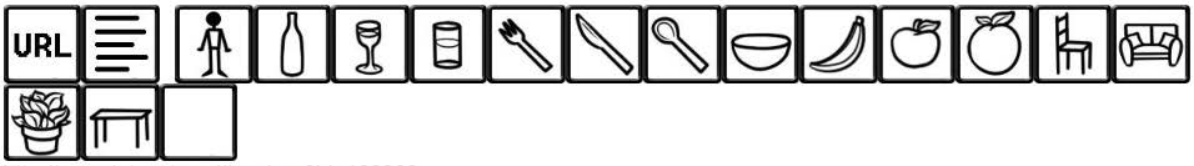
COCO dataset

COCO: Common Objects in Context.

Podemos fazer uma exploração do próprio dataset: https://cocodataset.org/#explore



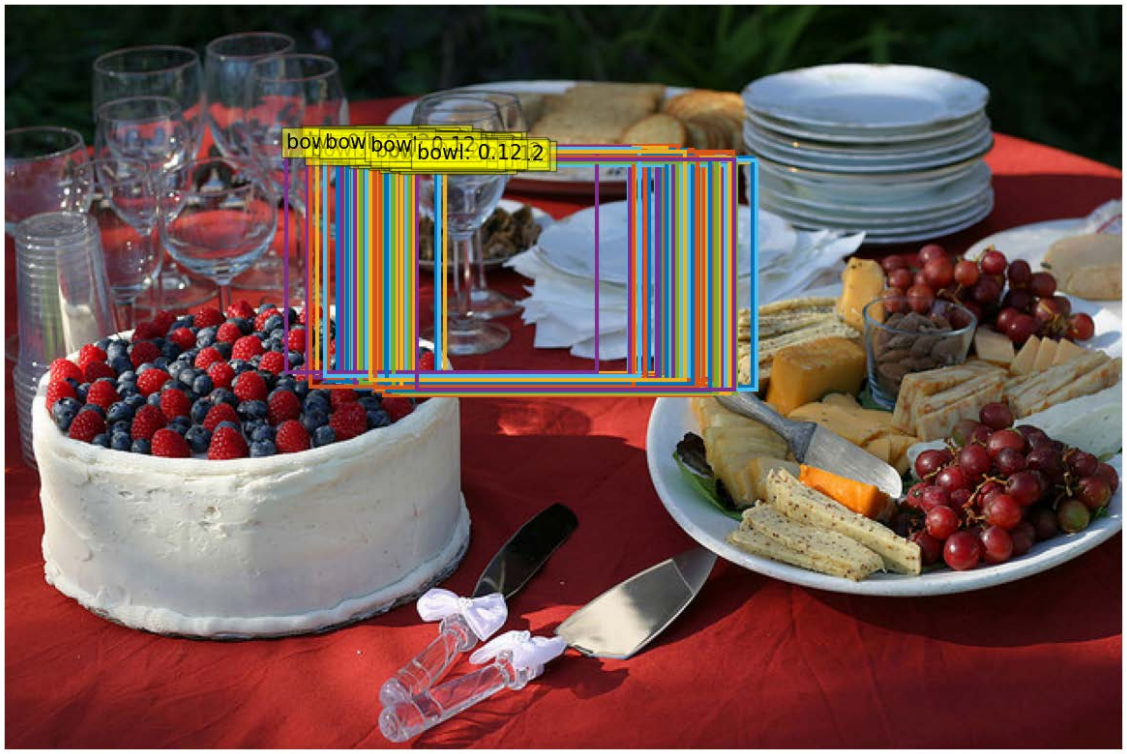


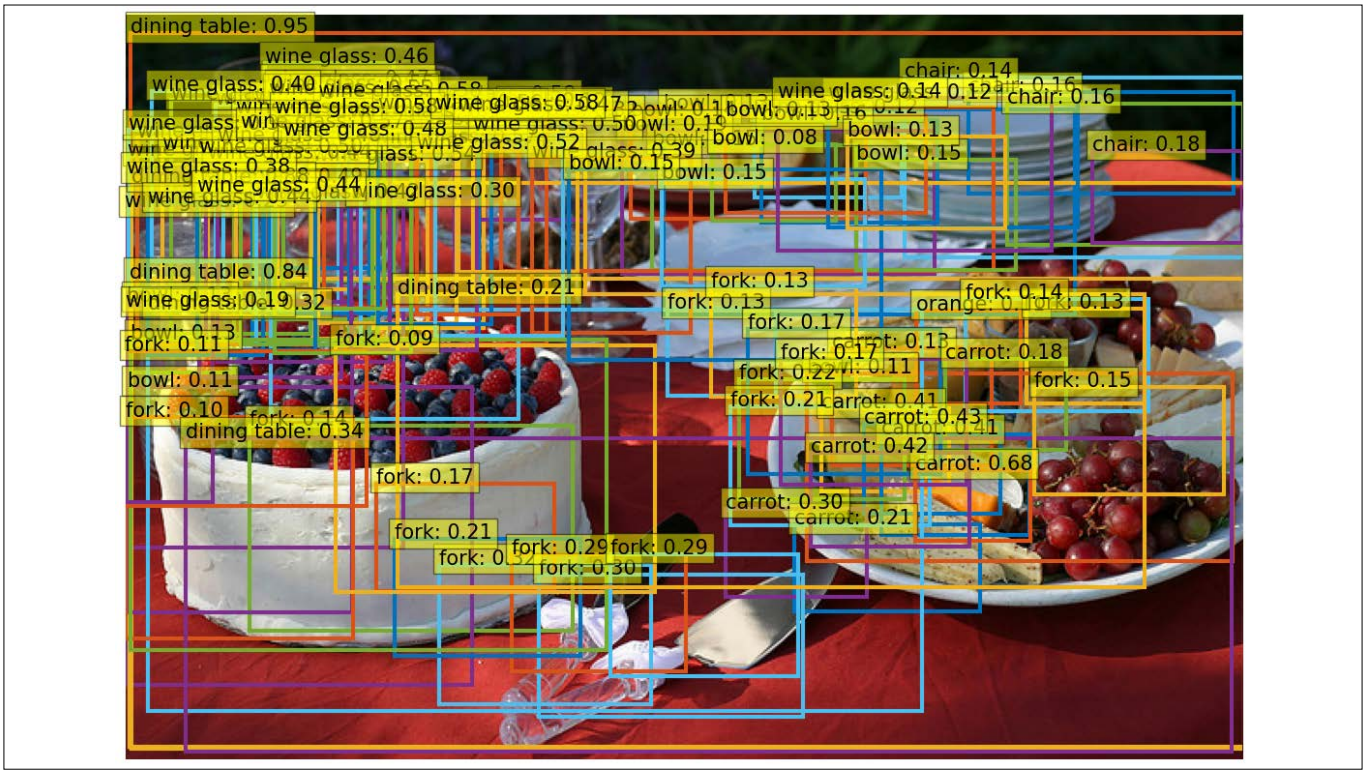


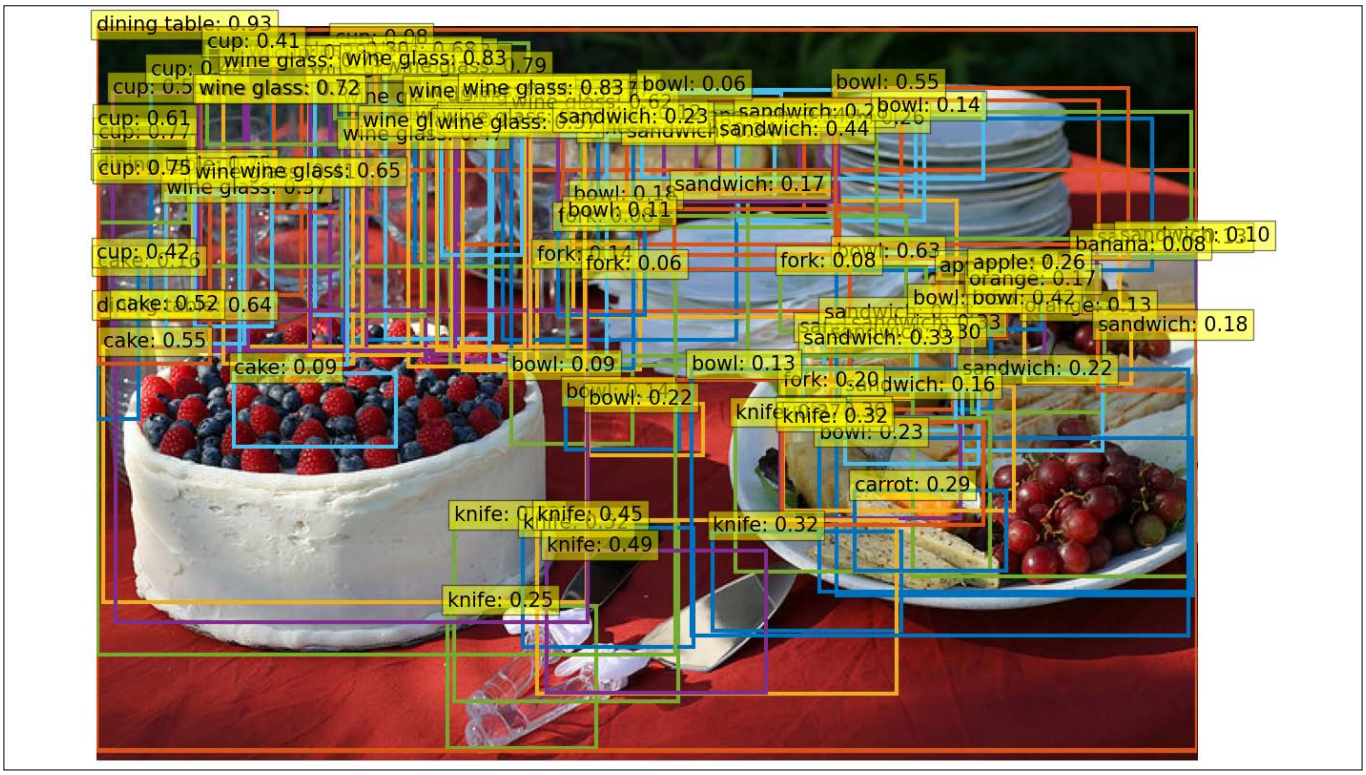
http://cocodataset.org/#explore?id=168909
http://farm3.staticflickr.com/2851/9370445254_5a68681e60_z.jpg
a table topped with two bowls filled with fruits.
a boy and a girl sitting around a table with plates on it.
a couple of people that are standing at a table with various objects.
a man and a woman eating dinner at a table.
there is a lot of food and dishes on the table

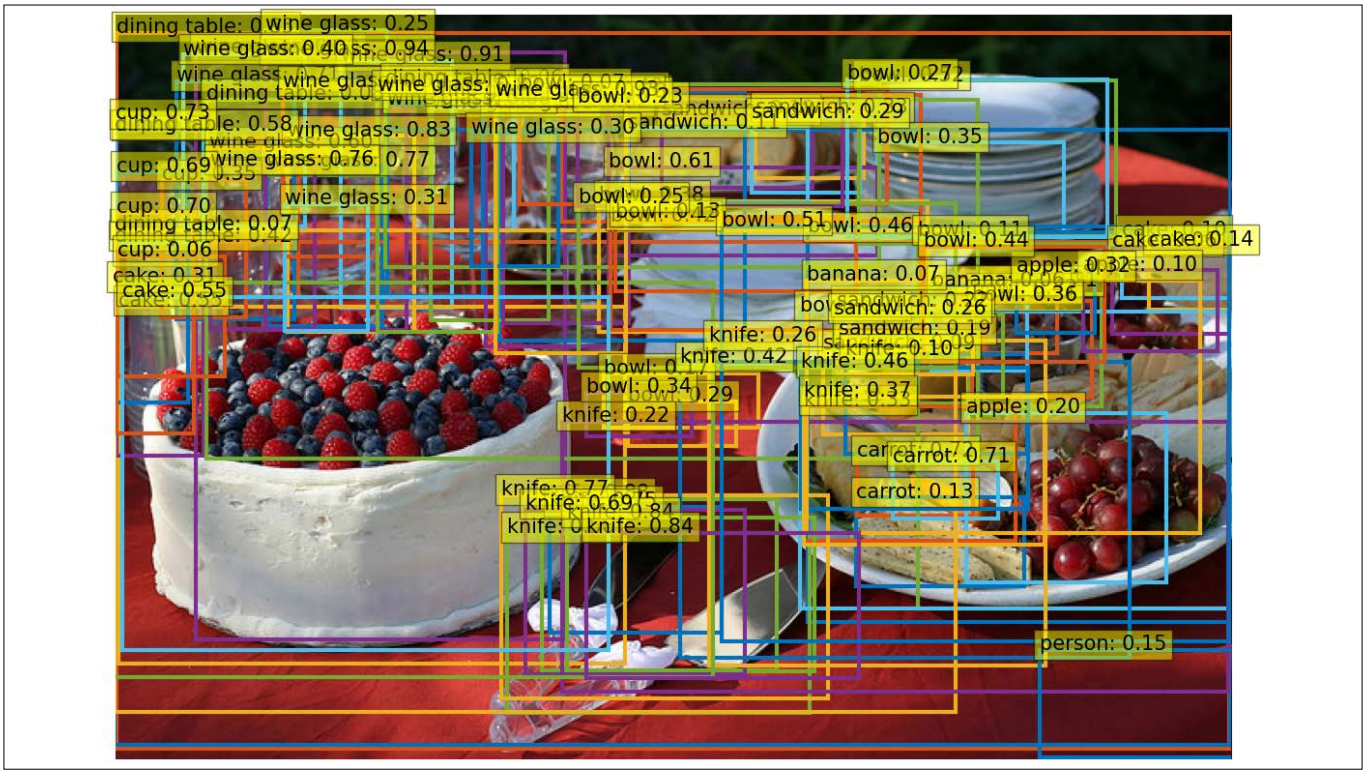
DE:TR: End-to-End Object Detection with Transformers

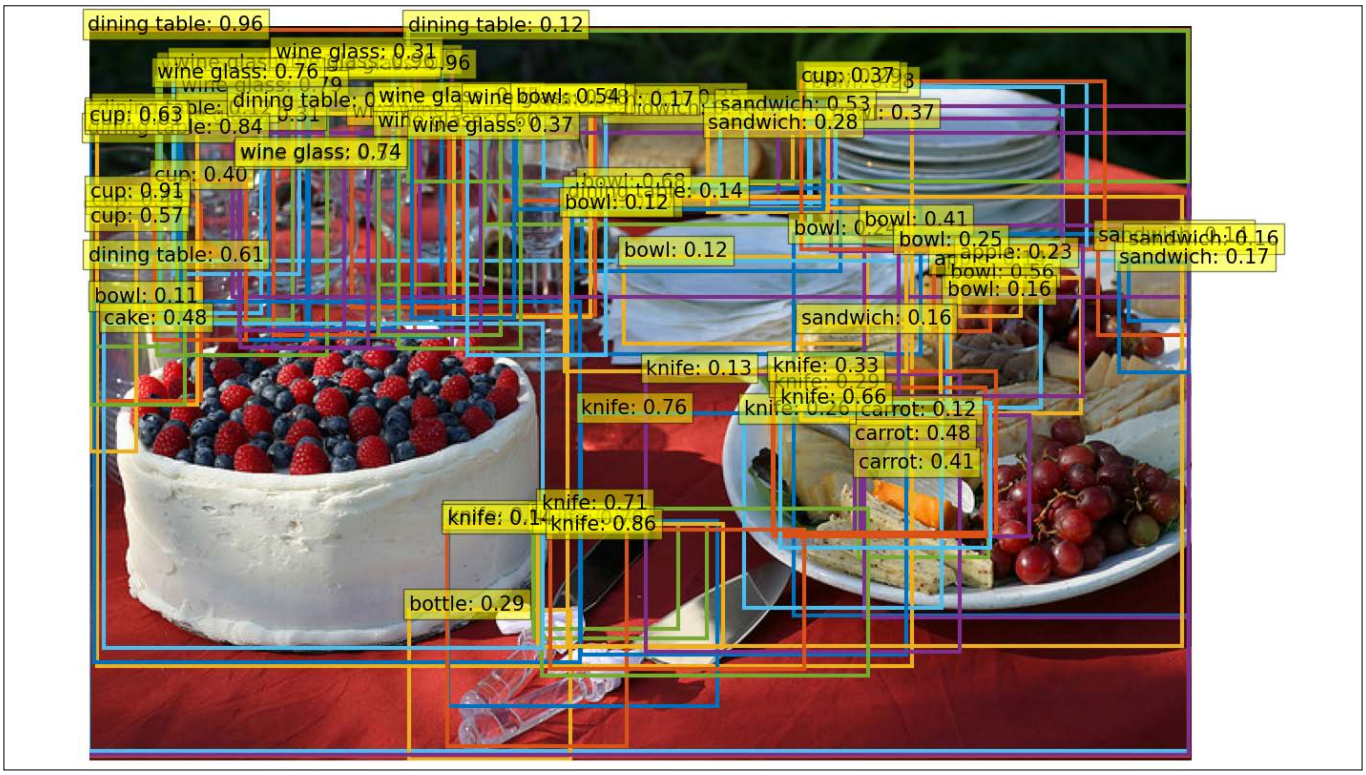
Bounding boxes

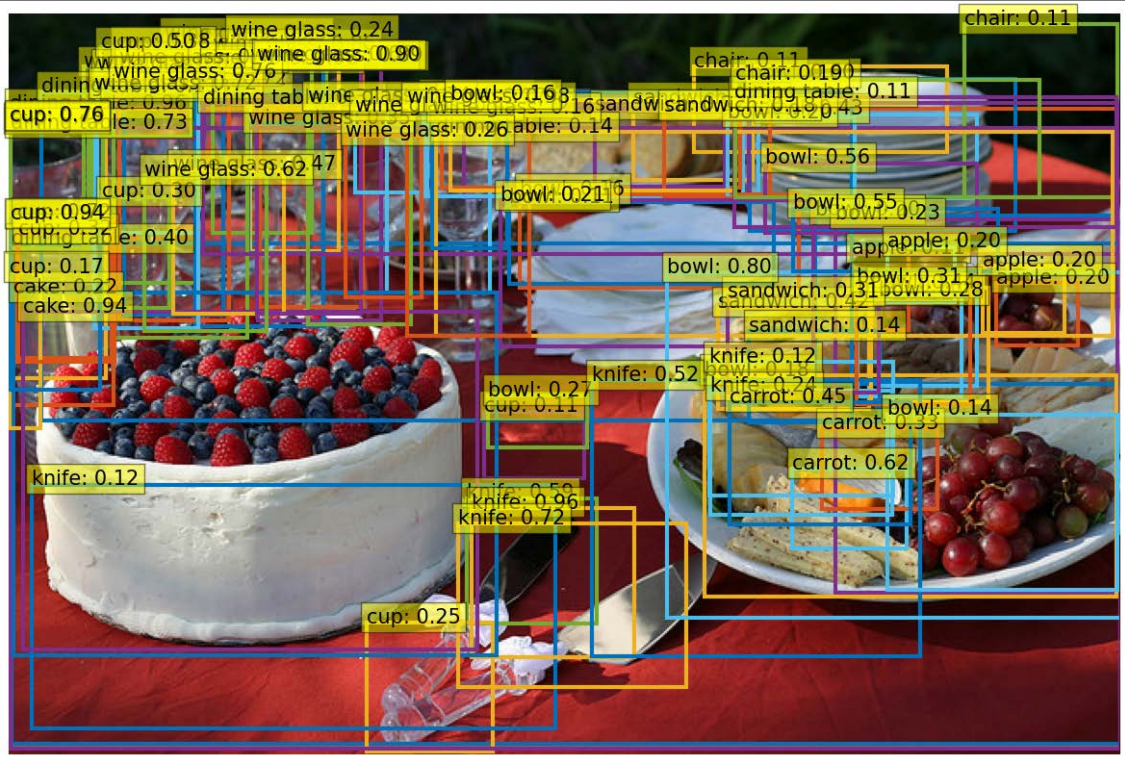

bowl: 0.12
2

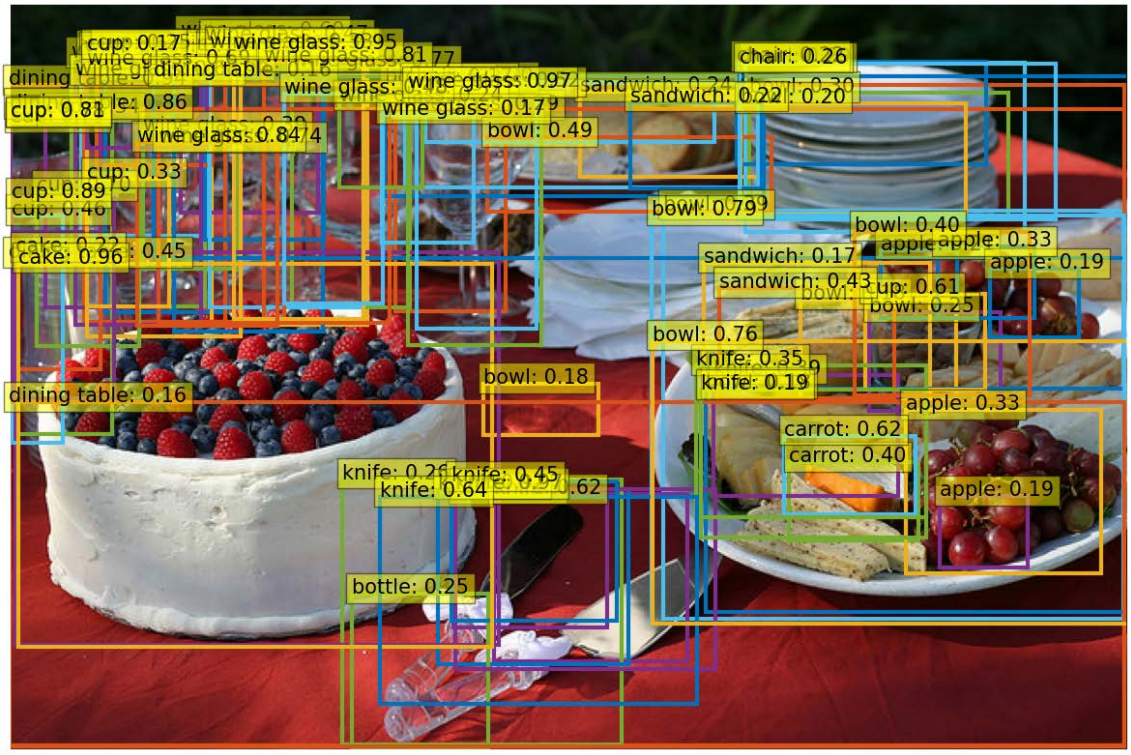

dining table: 0.95
wine glass: 0.46
wine glass: 0.40
wine glass: 0.58
wine glass: 0.48
wine glass: 0.50
wine glass: 0.52
wine glass: 0.38
wine glass: 0.44
wine glass: 0.30
chair: 0.14
chair: 0.16
chair: 0.18
bowl: 0.08
bowl: 0.13
bowl: 0.15
bowl: 0.15
dining table: 0.84
wine glass: 0.19
dining table: 0.21
fork: 0.13
fork: 0.13
fork: 0.14
fork: 0.17
fork: 0.11
fork: 0.09
fork: 0.17
fork: 0.22
fork: 0.21
carrot: 0.18
carrot: 0.43
carrot: 0.42
carrot: 0.68
fork: 0.15
bowl: 0.11
fork: 0.10
dining table: 0.34
fork: 0.17
carrot: 0.30
carrot: 0.21
fork: 0.21
fork: 0.29
fork: 0.29
fork: 0.30

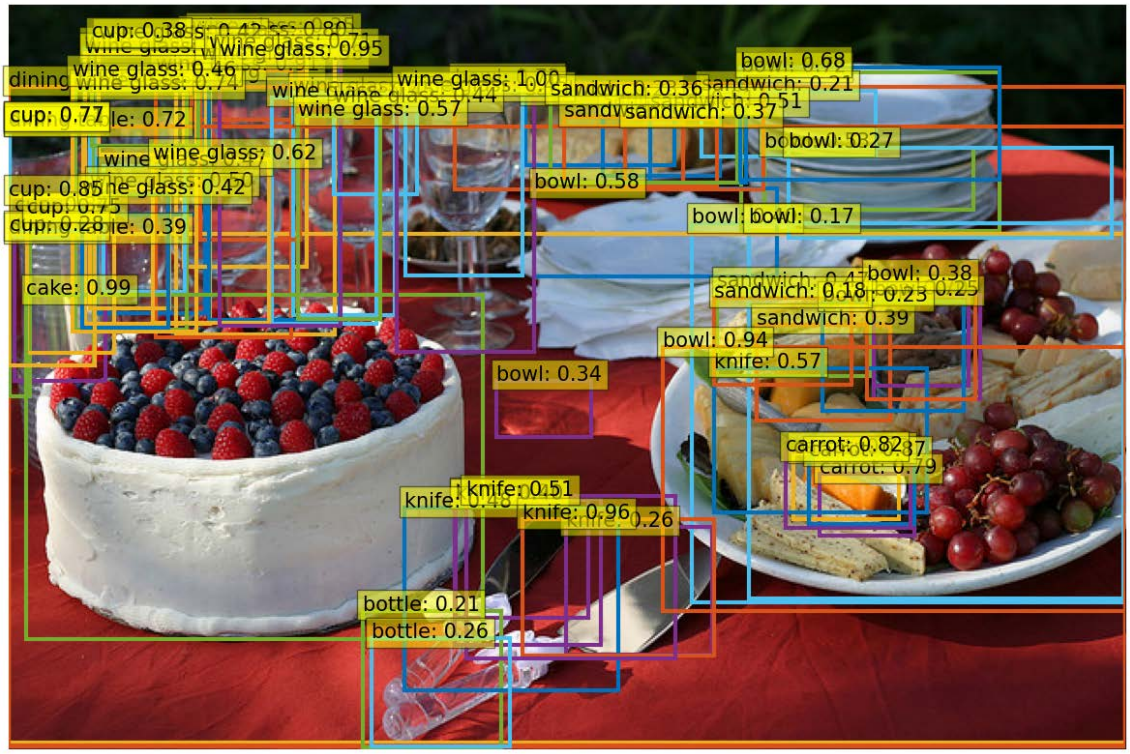

dining table: 0.93
cup: 0.41
wine glass: 0.83
wine glass: 0.72
wine glass: 0.83
bowl: 0.06
bowl: 0.55
bowl: 0.14
cup: 0.61
sandwich: 0.23
sandwich: 0.44
cup: 0.75
wine glass: 0.65
sandwich: 0.17
bowl: 0.11
cup: 0.42
fork: 0.06
fork: 0.08
banana: 0.08
apple: 0.26
cake: 0.52
0.64
sandwich: 0.18
cake: 0.55
sandwich: 0.33
cake: 0.09
bowl: 0.09
bowl: 0.13
sandwich: 0.22
fork: 0.20
bowl: 0.22
knife: 0.32
bowl: 0.23
carrot: 0.29
knife: 0.45
knife: 0.32
knife: 0.49
knife: 0.25

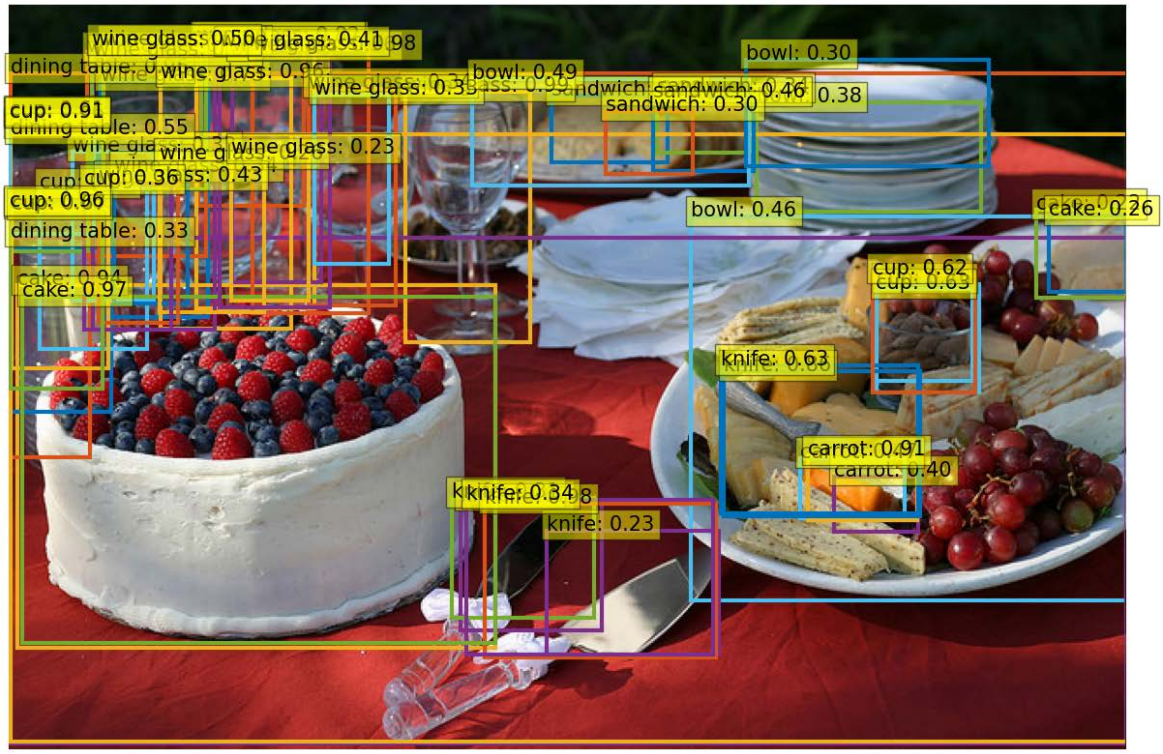

dining table: 0
wine glass: 0.25
wine glass: 0.40
wine glass: 0.76
wine glass: 0.83
wine glass: 0.30
wine glass: 0.31
cup: 0.73
dining table: 0.58
cup: 0.69
cup: 0.70
dining table: 0.07
cup: 0.06
cake: 0.55
bowl: 0.23
bowl: 0.61
bowl: 0.51
bowl: 0.44
bowl: 0.35
bowl: 0.36
sandwich: 0.29
sandwich: 0.26
sandwich: 0.19
banana: 0.07
apple: 0.32
cake: 0.14
knife: 0.26
knife: 0.42
knife: 0.46
knife: 0.37
knife: 0.22
apple: 0.20
carrot: 0.71
carrot: 0.13
knife: 0.84
person: 0.15

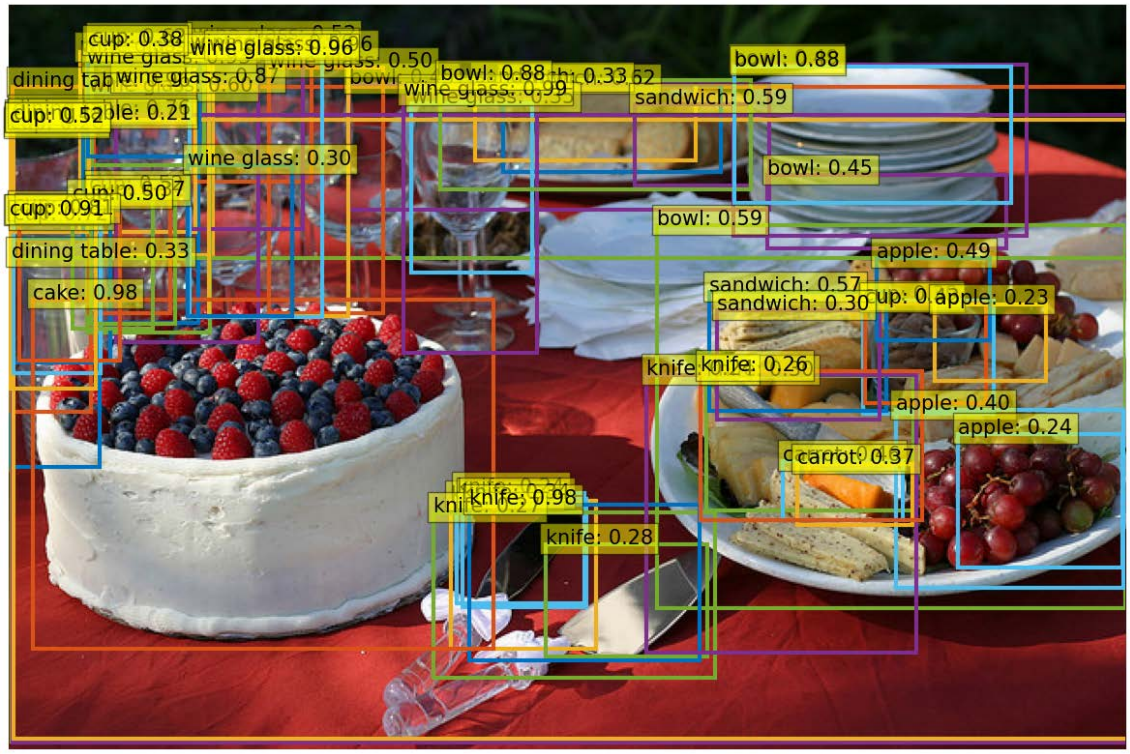

dining table: 0.96
dining table: 0.12
wine glass: 0.31
wine glass: 0.76
cup: 0.63
wine glass: 0.74
cup: 0.40
cup: 0.91
cup: 0.57
dining table: 0.61
bowl: 0.11
cake: 0.48
wine glass: 0.37
bowl: 0.54
cup: 0.37
sandwich: 0.53
sandwich: 0.28
bowl: 0.12
bowl: 0.41
bowl: 0.25
apple: 0.23
bowl: 0.16
sandwich: 0.16
sandwich: 0.17
knife: 0.13
knife: 0.33
knife: 0.66
knife: 0.76
carrot: 0.12
carrot: 0.48
carrot: 0.41
knife: 0.71
knife: 0.86
bottle: 0.29

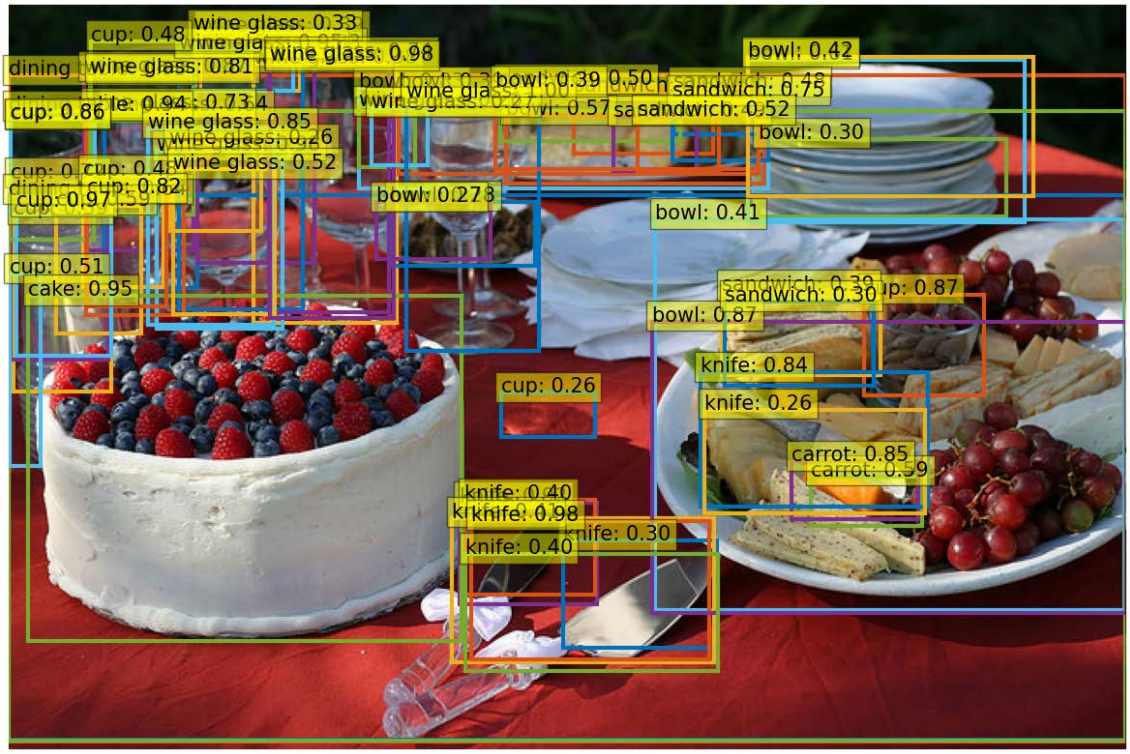

chair: 0.11
wine glass: 0.24
cup: 0.50
wine glass: 0.90
wine glass: 0.76
chair: 0.11
chair: 0.19
dining table: 0.11
dining tab
bowl: 0.16
cup: 0.76
wine glass: 0.26
bowl: 0.56
wine glass: 0.62
cup: 0.30
bowl: 0.21
bowl: 0.55
cup: 0.94
apple: 0.20
cup: 0.17
bowl: 0.80
apple: 0.20
cake: 0.94
bowl: 0.31
sandwich: 0.31
sandwich: 0.14
knife: 0.12
knife: 0.52
bowl: 0.27
carrot: 0.45
bowl: 0.14
carrot: 0.62
knife: 0.12
knife: 0.72
cup: 0.25

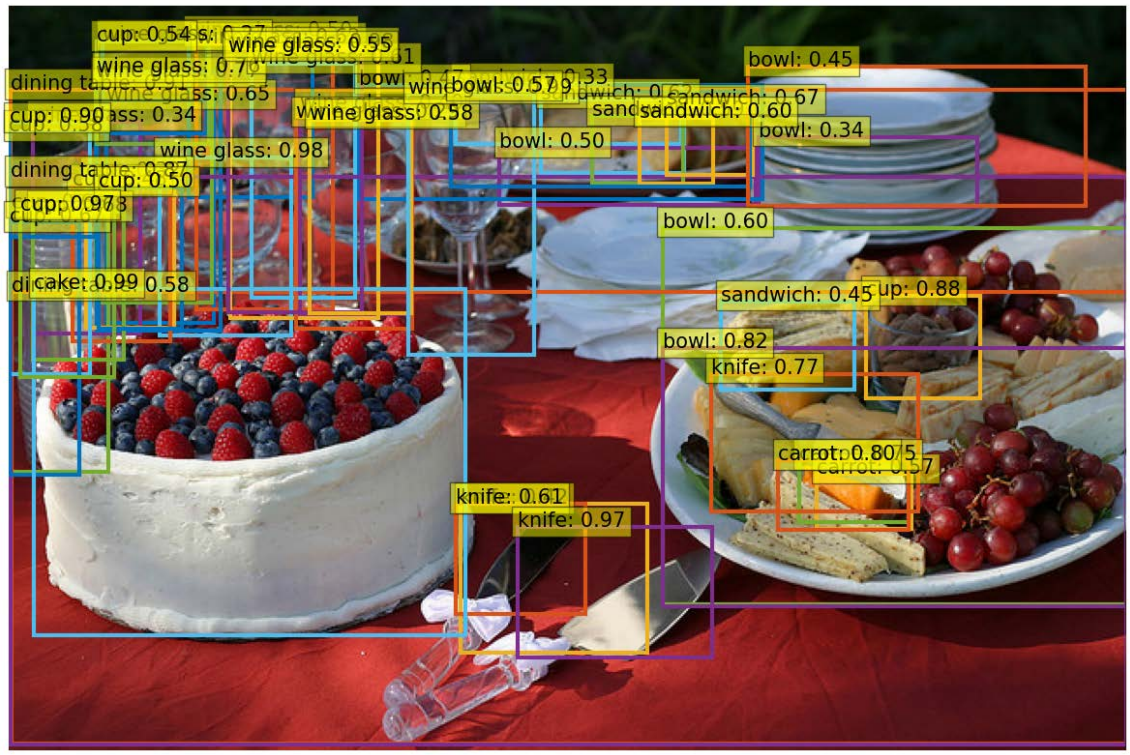

cup: 0.17
wine glass: 0.95
chair: 0.26
dining table:
wine glass: 0.97
sandwich: 0.22
cup: 0.81
wine glass: 0.17
wine glass: 0.84
bowl: 0.49
cup: 0.33
cup: 0.89
bowl: 0.79
bowl: 0.40
apple: 0.33
cake: 0.96
sandwich: 0.17
apple: 0.19
sandwich: 0.43
bowl: 0.76
knife: 0.35
knife: 0.19
bowl: 0.18
dining table: 0.16
apple: 0.33
carrot: 0.62
carrot: 0.40
knife: 0.45
knife: 0.64
apple: 0.19
bottle: 0.25

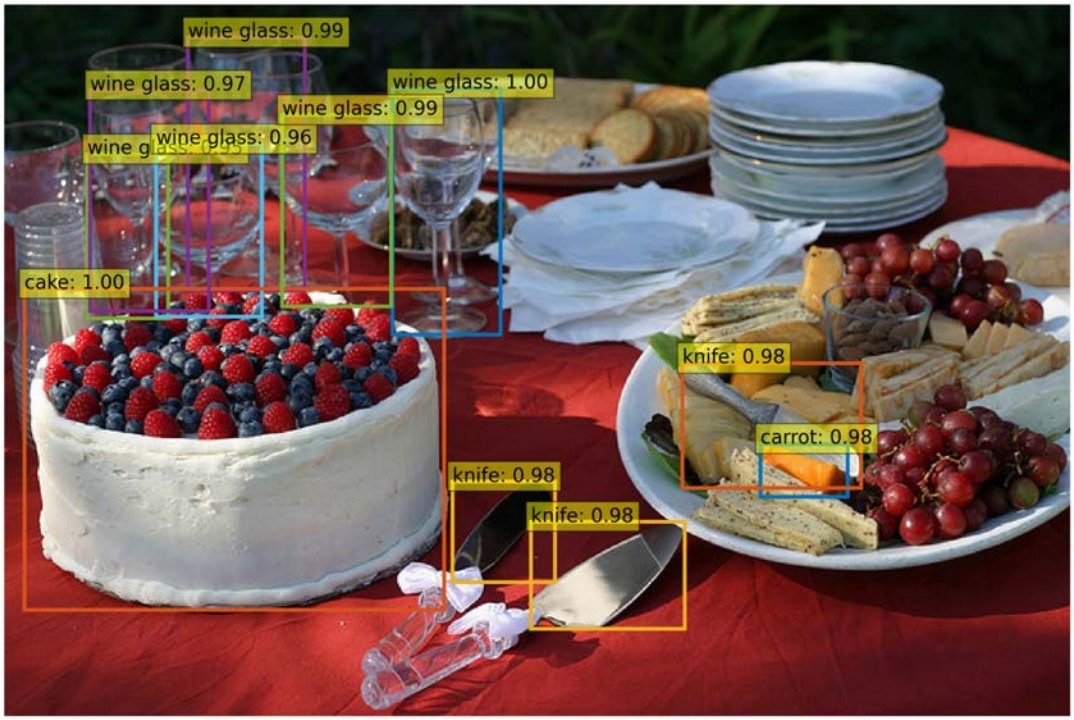

cup: 0.38
wine glass: 0.95
wine glass: 0.46
wine glass: 1.00
bowl: 0.68
sandwich: 0.36
sandwich: 0.21
wine glass: 0.57
sandwich: 0.37
cup: 0.77
wine glass: 0.62
bowl: 0.27
bowl: 0.58
cup: 0.85
wine glass: 0.42
bowl: 0.17
cake: 0.99
bowl: 0.38
sandwich: 0.18
sandwich: 0.39
bowl: 0.94
knife: 0.57
bowl: 0.34
carrot: 0.82
knife: 0.51
knife: 0.96
bottle: 0.21
bottle: 0.26

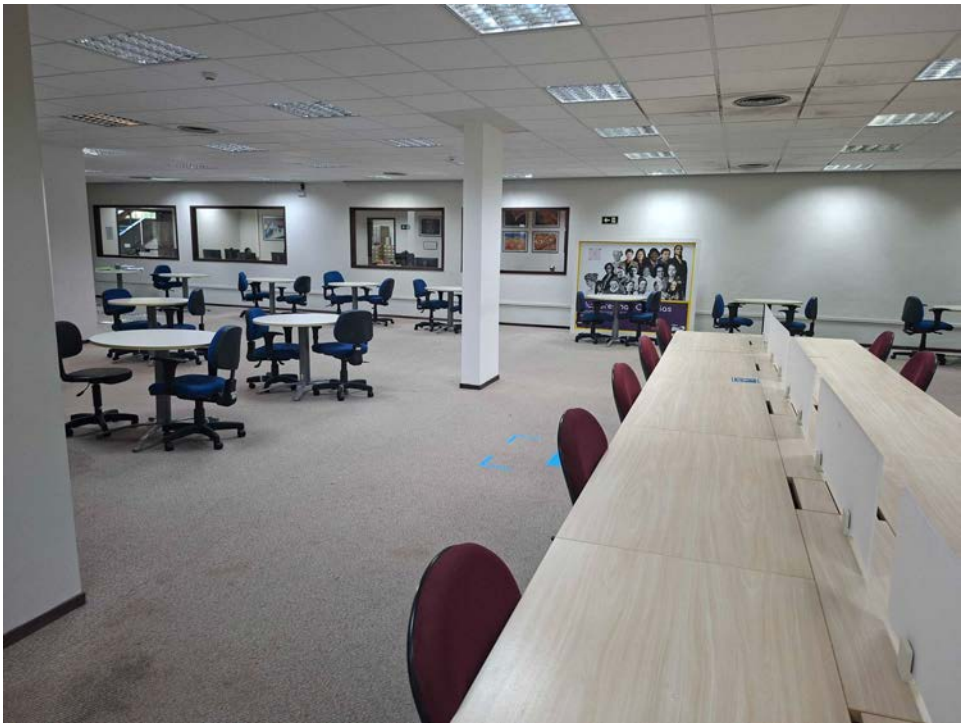

wine glass: 0.50
wine glass: 0.41
bowl: 0.30
dining table: 0.55
wine glass: 0.33
bowl: 0.49
sandwich: 0.30
0.38
cup: 0.91
wine glass: 0.23
cup: 0.36
cup: 0.96
bowl: 0.46
cake: 0.26
dining table: 0.33
cup: 0.62
cake: 0.97
knife: 0.63
carrot: 0.91
carrot: 0.40
knife: 0.34
knife: 0.23

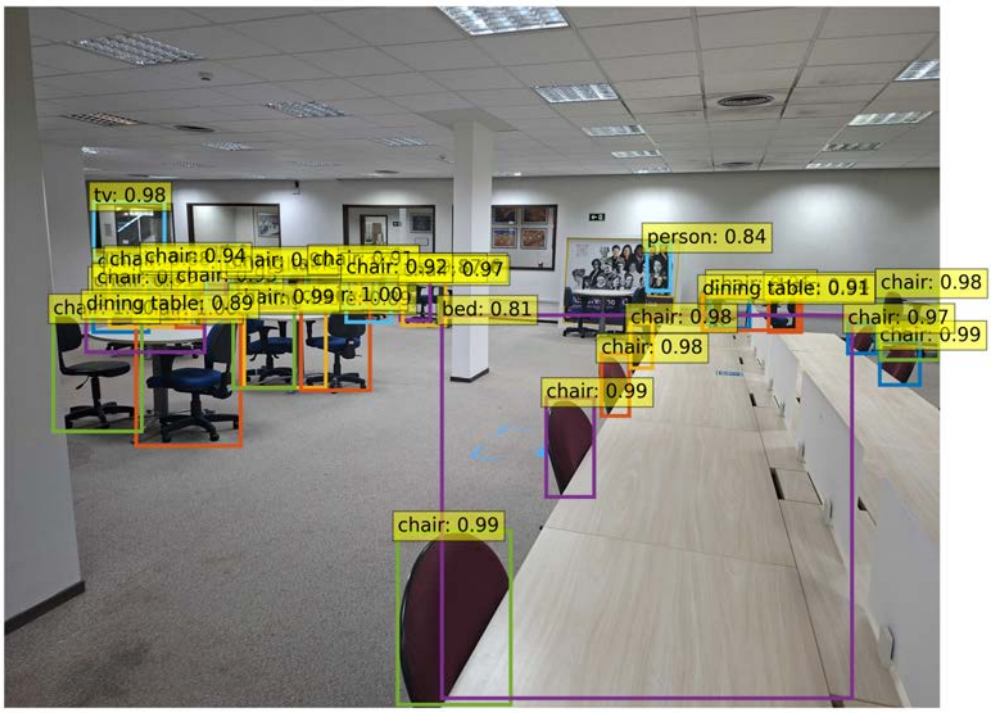

cup: 0.38
wine glass: 0.96
wine glass: 0.87
dining table: 0.21
cup: 0.52
wine glass: 0.50
bowl: 0.88
wine glass: 0.99
sandwich: 0.59
bowl: 0.88
wine glass: 0.30
bowl: 0.45
cup: 0.91
bowl: 0.59
dining table: 0.33
apple: 0.49
cake: 0.98
sandwich: 0.57
sandwich: 0.30
apple: 0.23
knife: 0.26
apple: 0.40
apple: 0.24
carrot: 0.37
knife: 0.98
knife: 0.28


cup: 0.48
wine glass: 0.33
wine glass: 0.98
wine glass: 0.81
bowl: 0.42
bowl: 0.39
0.50
sandwich: 0.75
cup: 0.86
sandwich: 0.52
wine glass: 0.85
bowl: 0.30
wine glass: 0.52
cup: 0.97
bowl: 0.41
cup: 0.51
cake: 0.95
sandwich: 0.30
bowl: 0.87
knife: 0.84
cup: 0.26
knife: 0.26
carrot: 0.85
knife: 0.40
knife: 0.98
knife: 0.30
knife: 0.40

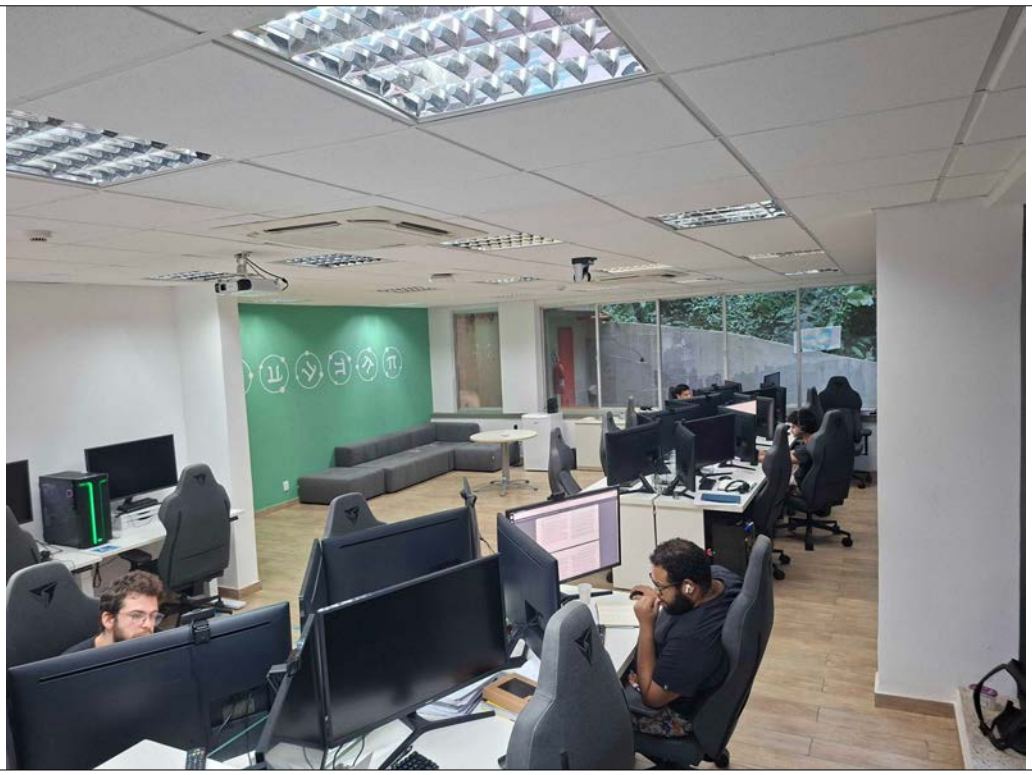

cup: 0.54
wine glass: 0.55
wine glass: 0.7
dining table: 0.91
wine glass: 0.65
cup: 0.90
wine glass: 0.34
wine glass: 0.58
bowl: 0.57
bowl: 0.45
sandwich: 0.67
sandwich: 0.60
bowl: 0.34
bowl: 0.50
wine glass: 0.98
dining table: 0.87
cup: 0.50
cup: 0.97
bowl: 0.60
cake: 0.99
0.58
sandwich: 0.45
cup: 0.88
bowl: 0.82
knife: 0.77
carrot: 0.80
knife: 0.61
knife: 0.97

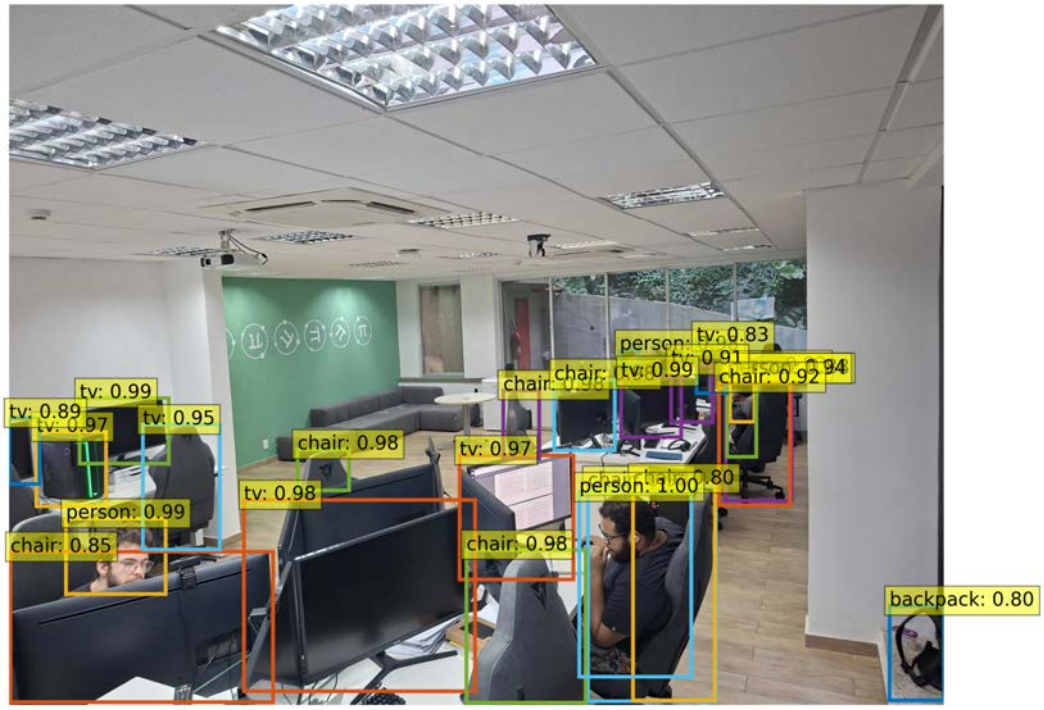

wine glass: 0.99
wine glass: 0.97
wine glass: 1.00
wine glass: 0.99
wine glass: 0.96
cake: 1.00
knife: 0.98
carrot: 0.98
knife: 0.98
knife: 0.98

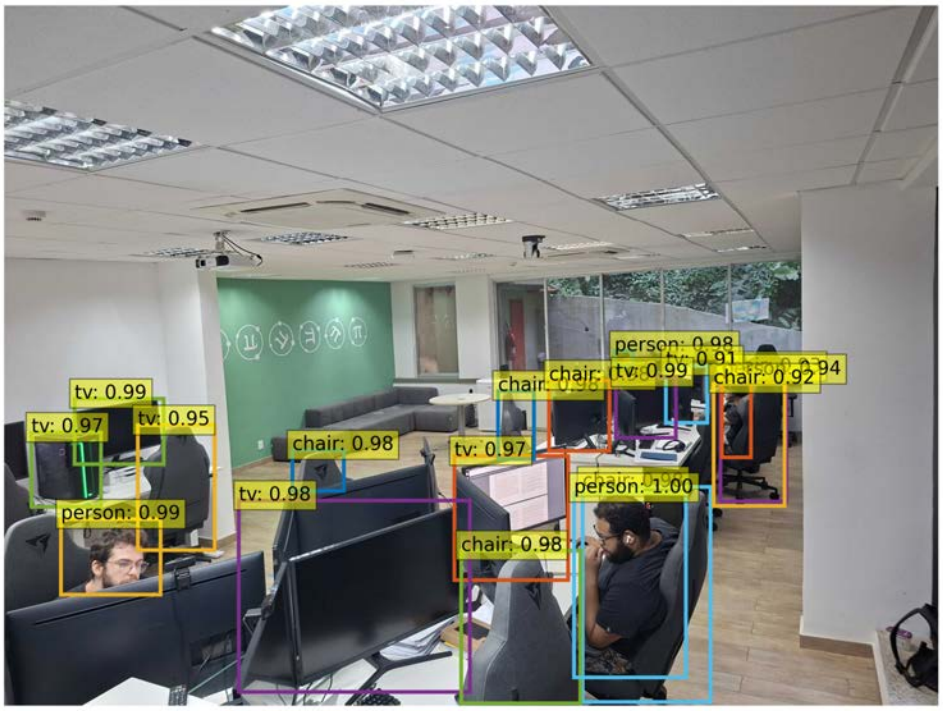



tv: 0.98
person: 0.84
chair: 0.94
chair: 0.92
0.97
dining table: 0.91
chair: 0.98
dining table: 0.89
bed: 0.81
chair: 0.98
chair: 0.97
chair: 0.99
chair: 0.98
chair: 0.99
chair: 0.99

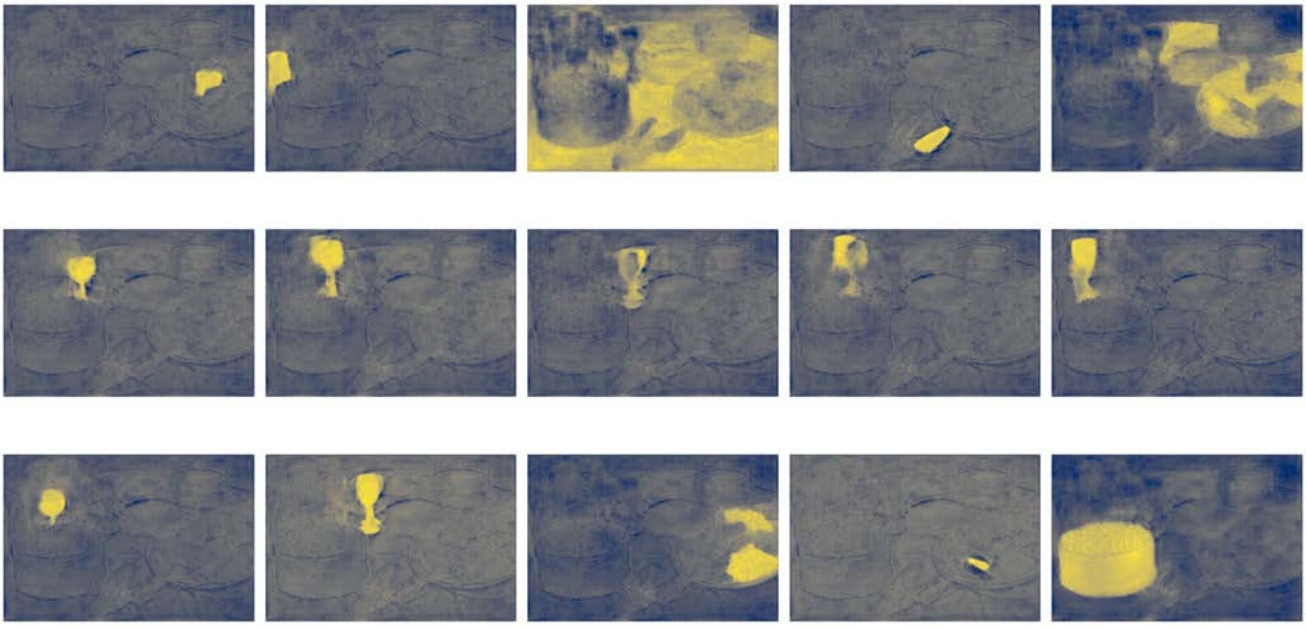
tv: 0.98
chair: 0.94
chair: 0.92
0.97
chair: 1.00
chair: 0.99
dining table: 0.91
chair: 0.98
chair: 0.98
chair: 0.97
chair: 0.99
chair: 0.98
chair: 0.99
chair: 0.99

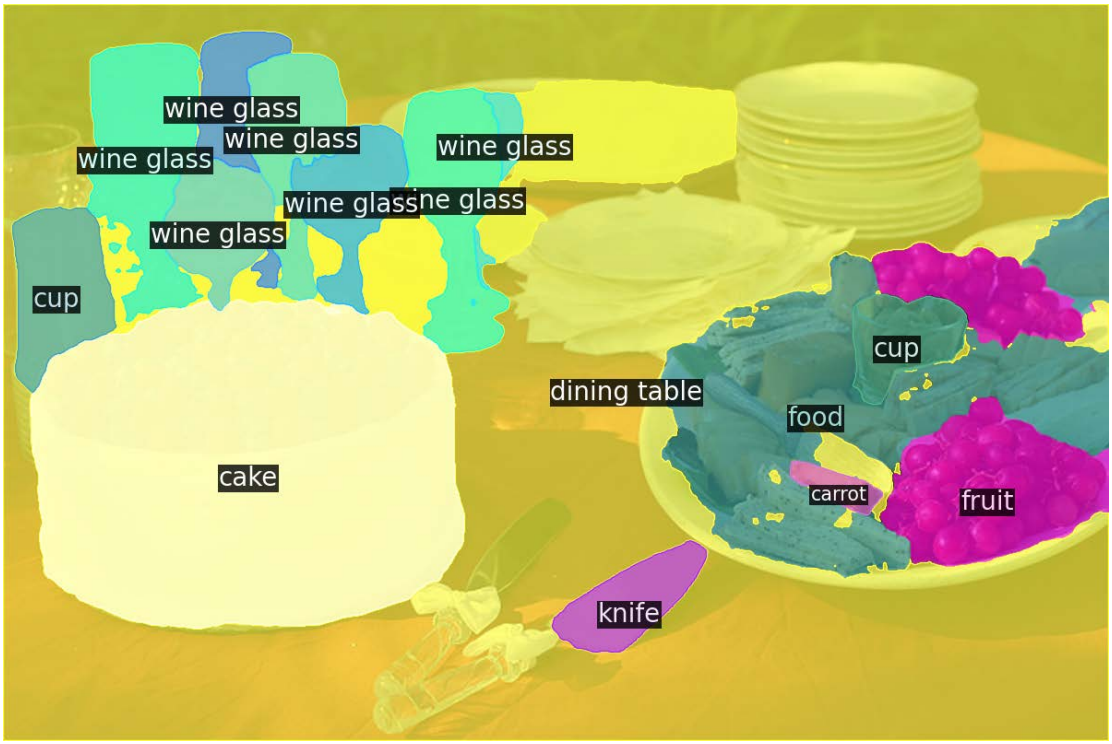


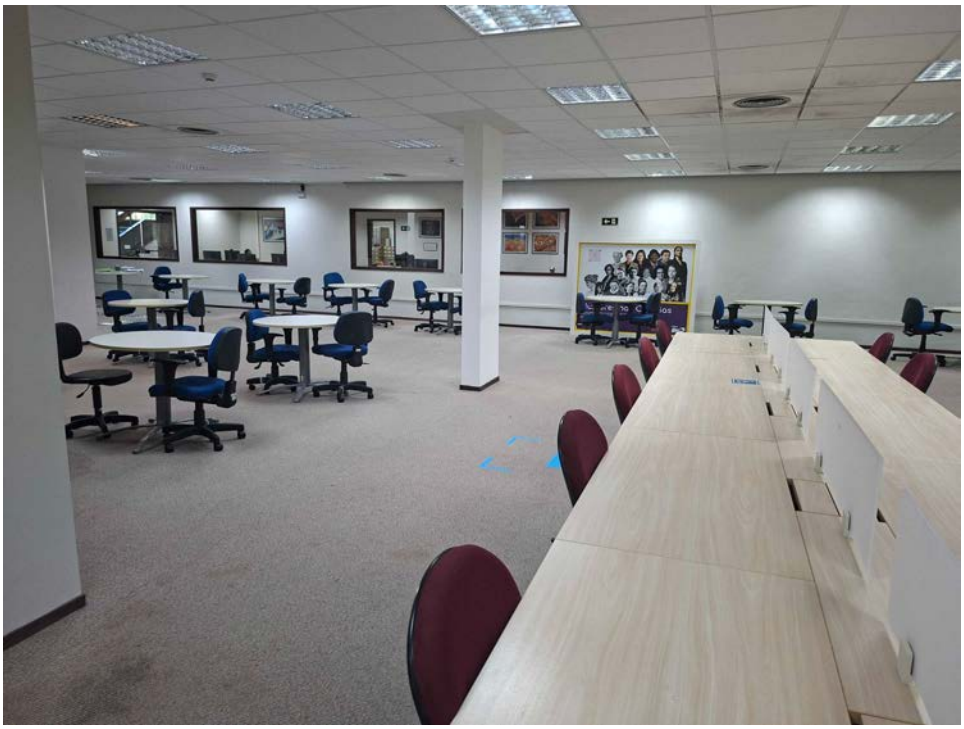

tv: 0.83
person: 0.91
chair: 0.99
chair: 0.92
tv: 0.99
tv: 0.89
tv: 0.97
tv: 0.95
chair: 0.98
tv: 0.97
tv: 0.98
person: 1.00
person: 0.99
chair: 0.85
chair: 0.98
backpack: 0.80

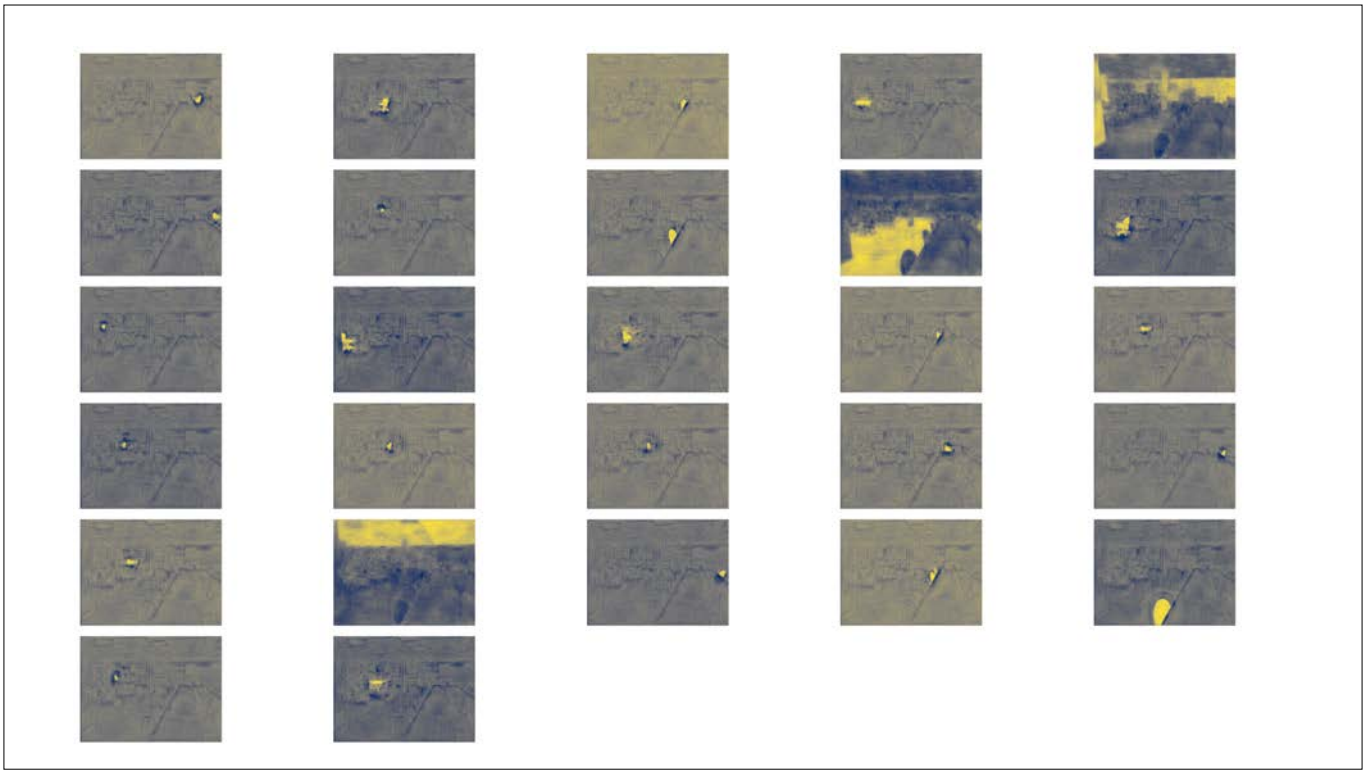

person: 0.98
0.91
chair: 0.99
chair: 0.92
tv: 0.99
tv: 0.97
tv: 0.95
chair: 0.98
tv: 0.97
tv: 0.98
person: 1.00
person: 0.99
chair: 0.98

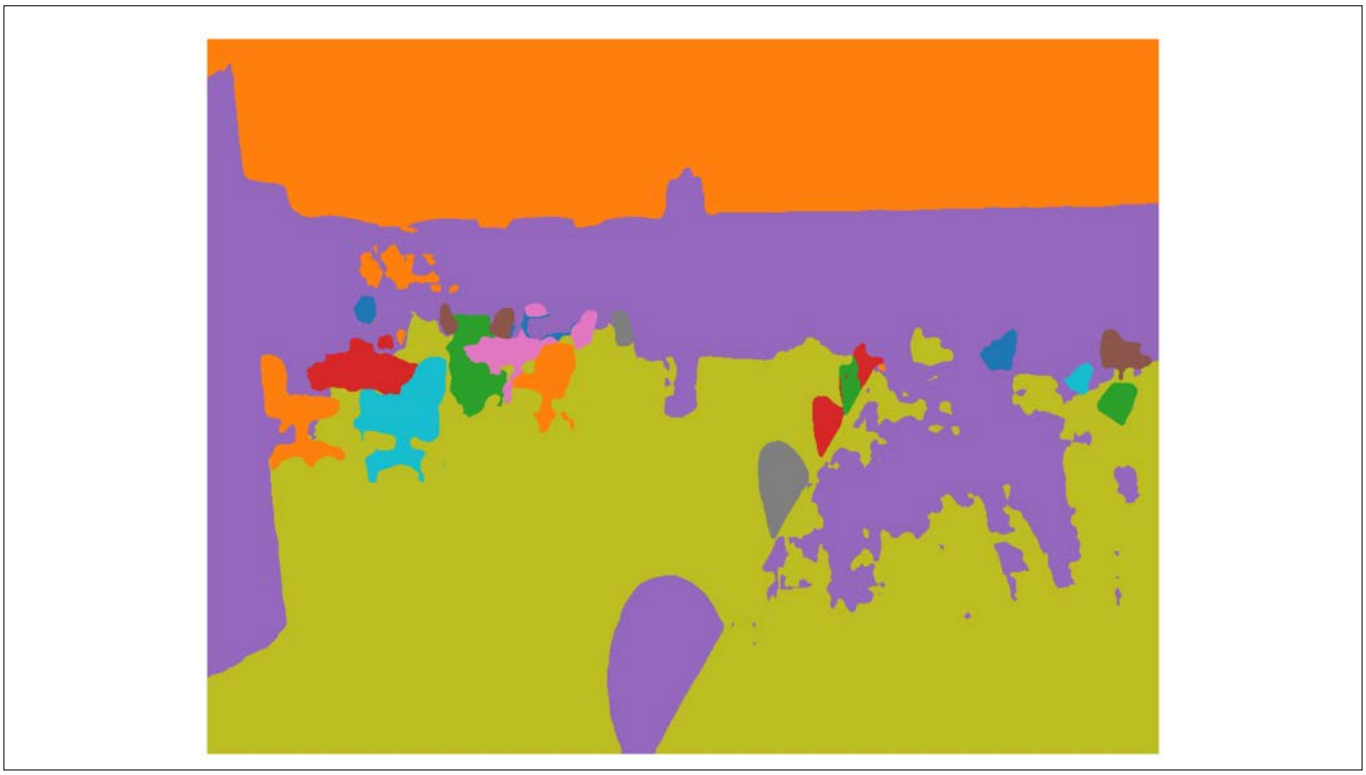
Panoptic

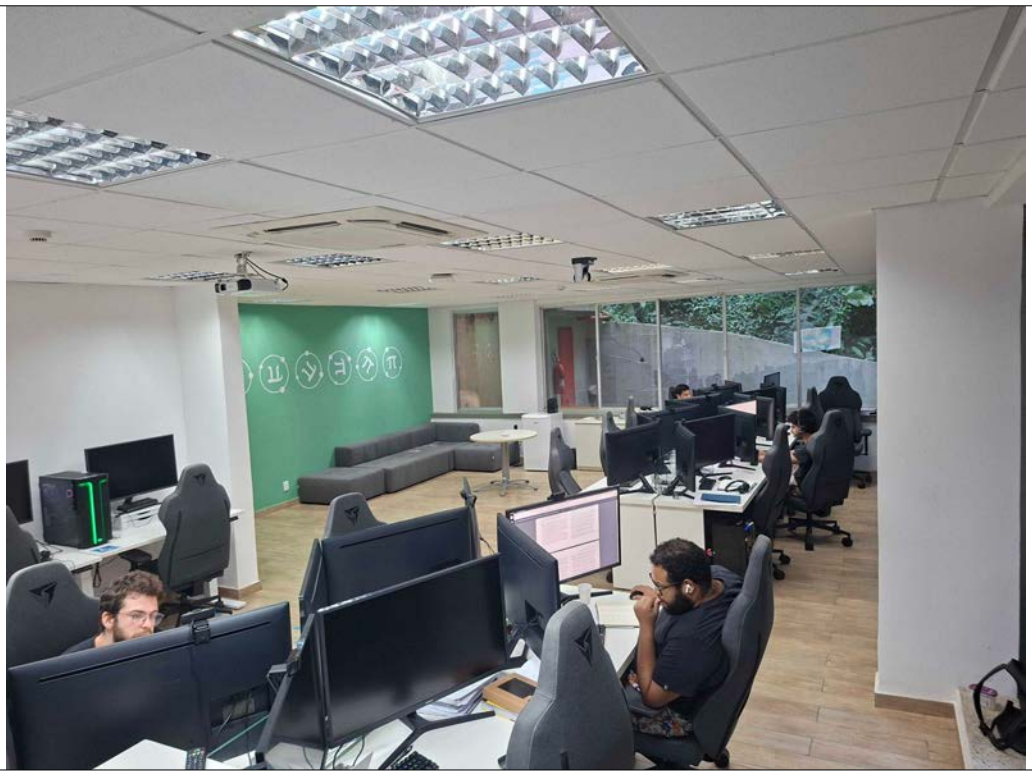


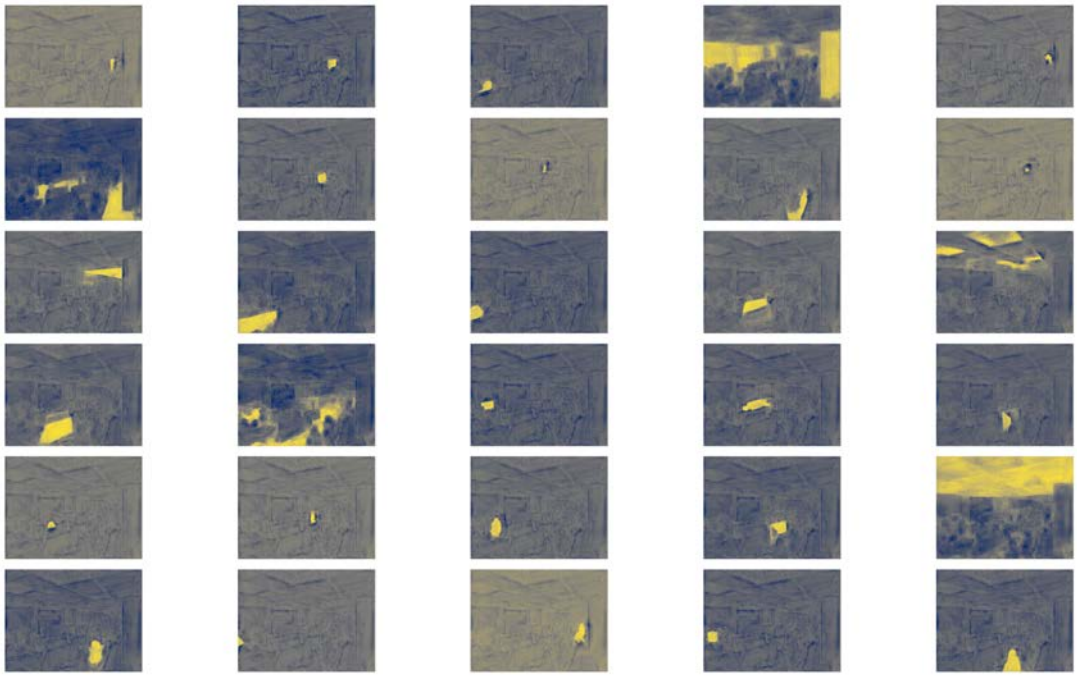

wine glass
wine glass
wine glass
wine glass
wine glass
wine glass
wine glass
cup
cup
dining table
food
cake
carrot
fruit
knife











light
ceiling-merged
window-other
wall-other-merged
person
chair
wall-other-merged
couch
chair
tv
person
chair
table-merged
chair
chair
chair
tv
tv
tv
chair
person
person
tv
tv
floor-wood
paper-merged
chair
rug-merged

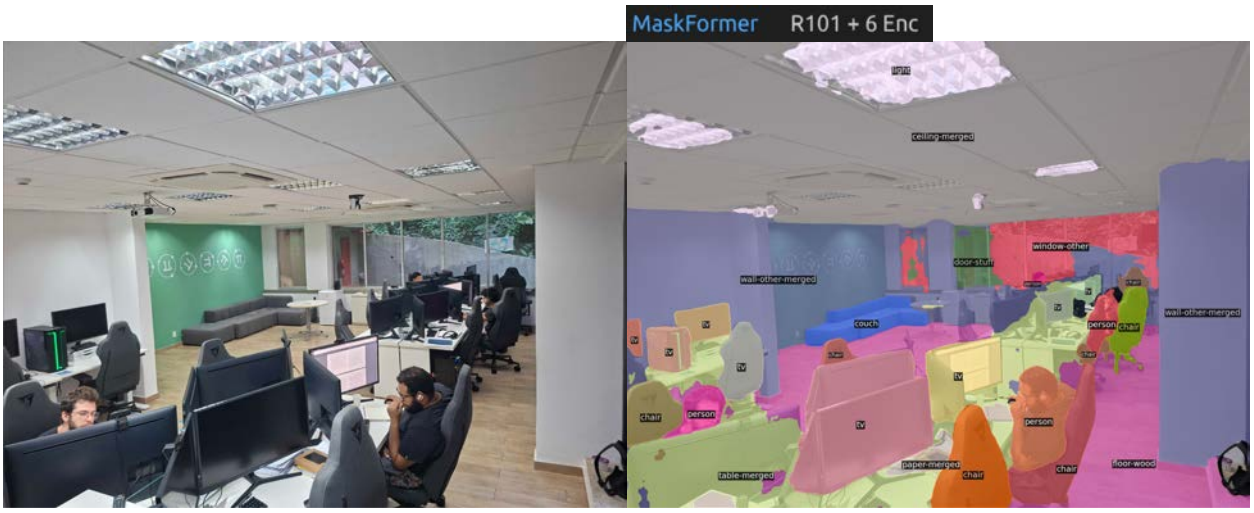
MaskFormer

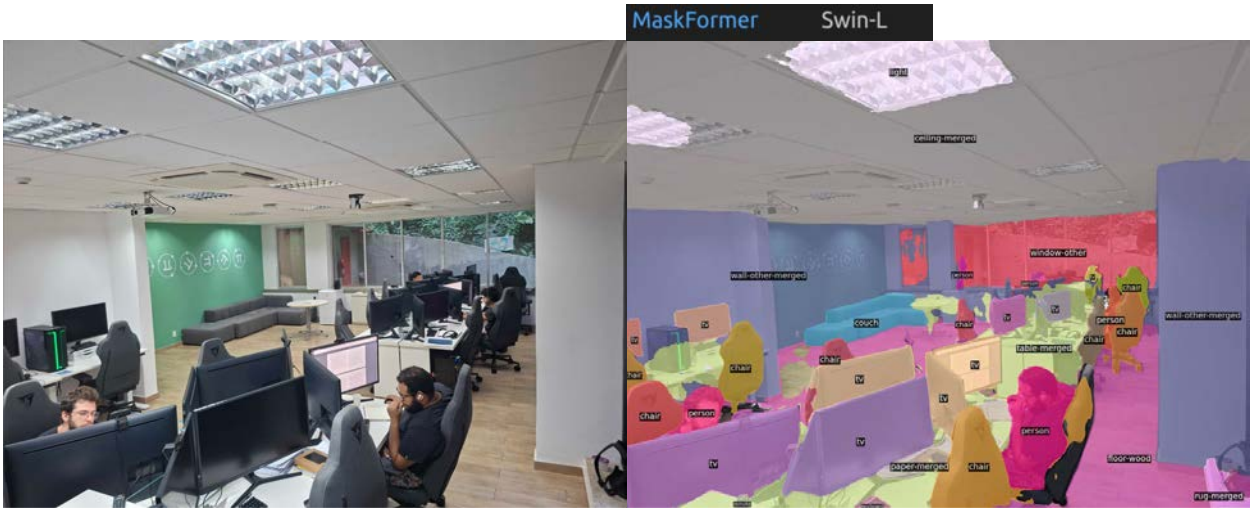
Panoptic Segmentation Models

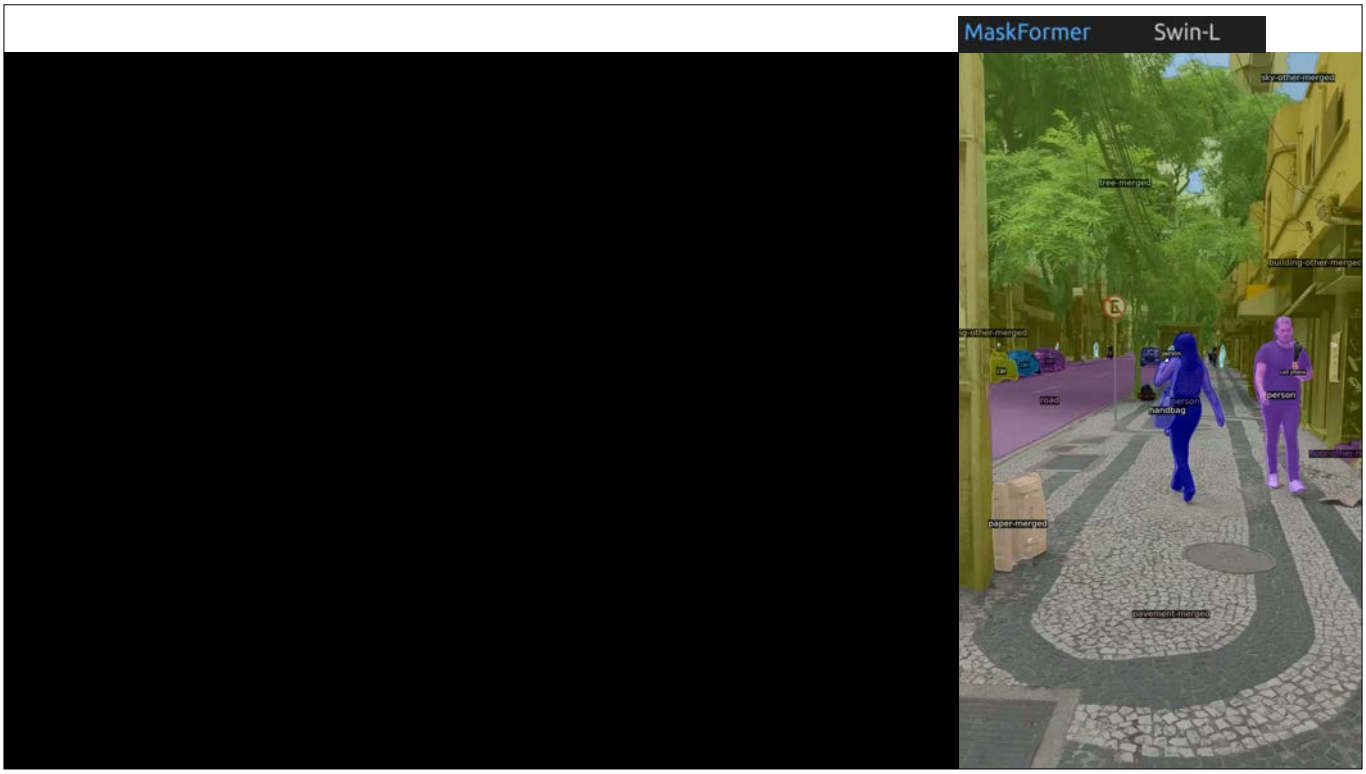
COCO Panoptic Segmentation

Name	Backbone	lr sched	train mem (MB)	PQ	model id	download
MaskFormer	R50 + 6 Enc	554k	22634	46.5	42747488_1	model | metrics
MaskFormer	R101 + 6 Enc	554k	27358	47.6	42747488_0	model | metrics
MaskFormer	Swin-T	554k	20023	47.7	41143190_0	model | metrics
MaskFormer	Swin-S	554k	21620	49.7	41270920	model | metrics
MaskFormer	Swin-B	554k	24411	51.8	41260906	model | metrics
MaskFormer	Swin-L	554k	23275	52.7	43219274	model | metrics

MaskFormer R50 + 6 Enc
wine glass
cup
dining table
sandwich
knife
cake
fruit

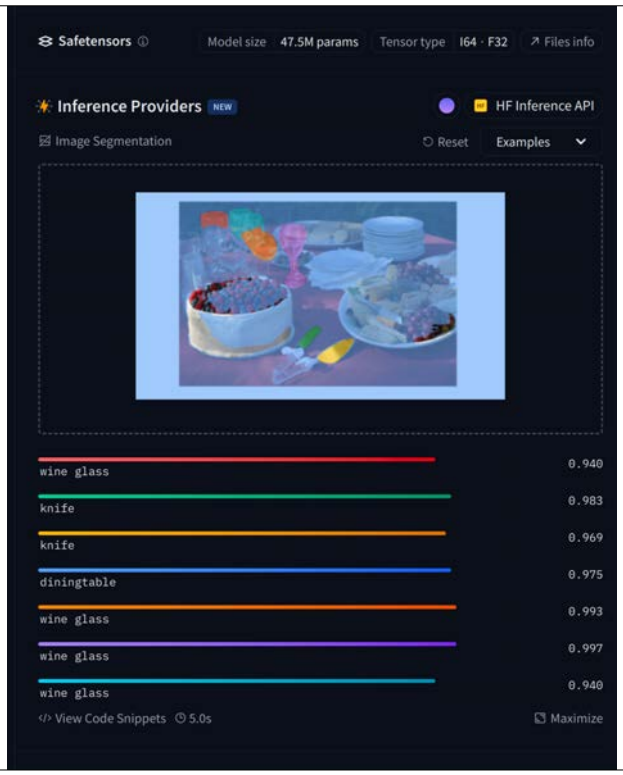

MaskFormer R101 + 6 Enc
ceiling-merged
window-other
door-stuff
wall-other-merged
couch
person
chair
tv
table-merged
paper-merged
floor-wood


MaskFormer
Swin-L
wall
ceiling-merged
window-other
wall-other-merged
person
chair
couch
table-merged
tv
paper-merged
floor-wood
rug-merged

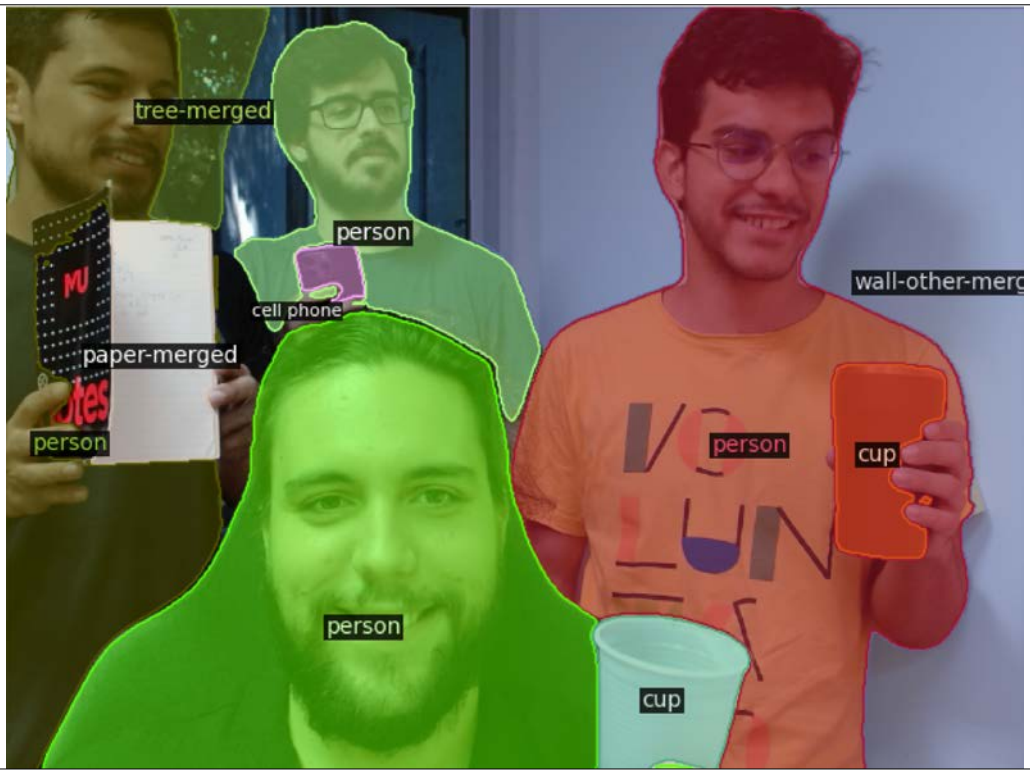

MaskFormer
Swin-L
sky-other-merged
tree-merged
building-other-merged
road
person
handbag
paper-merged
pavement-merged

Mask2Form

https://huggingface.co/facebook/mask2former-swin-tiny-coco-instance



ceiling-merged
tree-merged
window-other
wall-other-merged
person
tv
couch
chair
table-merged
floor-wood


tree-merged
person
cell phone
paper-merged
wall-other-merg
cup