

Object of dataset for object detection

✅ Most Useful Object Detection Datasets			
Dataset	# Classes	Best For	Why It's Useful
COCO	80	General-purpose detection	Balanced classes, strong benchmarks, widely supported
PASCAL VOC	20	Learning & prototyping	Lightweight, great for beginners & classic models
Open Images	600+	Large-scale object detection	Massive, diverse, real-world scenarios
ADE20K	150	Scene understanding & segmentation	Rich context: object + background
Cityscapes	30	Urban street scenes	High-res, great for self-driving systems
KITTI	8	Autonomous vehicles	Real-world LIDAR + camera data
Objects365	365	Real-world object variety	Large-scale, good for generalization
LVIS	1,200+	Long-tail object detection	Ideal for rare object training
BDD100K	10	Autonomous driving in diverse conditions	Diverse lighting/weather, labeled videos

• PASCAL VOC Object Classes (20):

- | | | |
|----------------|---------------------|--------|
| 1. Aeroplane | 12. bicycle | |
| 2. Bird | 13.boat | |
| 3. Bottle | 14.bus | |
| 4. Car | 15.cat | |
| 5. Chair | 16. cowdining table | 17.dog |
| 6. horse | 18.motorbike | |
| 7. person | 19.potted plant | |
| 8. sheep | 20. sofa | |
| 9. train | | |
| 10. tv monitor | | |

- **Cityscapes Classes (30):.**

- | | |
|------------------|----------------|
| 1. Road | 16. Bus |
| 2. Sidewalk | 17. Train |
| 3. Building | 18. Motorcycle |
| 4. Wall | 19. Bicycle |
| 5. Fence | 20. Parking |
| 6. Pole | 21. Rail track |
| 7. Traffic light | 22. Guard rail |
| 8. Traffic sign | 23. Bridge |
| 9. Vegetation | 24. Tunnel |
| 10. Terrain | 25. Pole group |
| 11. Sky | 26. Dynamic |
| 12. Person | 27. Static |
| 13. Rider | 28. Ground |
| 14. Car | 29. Caravan |
| 15. Truck | 30. Trailer |

- **KITTI Object Classes(8)**

1. Car
2. Van
3. Truck
4. Pedestrian
5. Person_sitting
6. Cyclist
7. Tram
8. Misc (*e.g., trailer, construction vehicles*)

- **COCO Object Categories (80)**

1. Person
2. Bicycle
3. Car
4. Motorcycle
5. Airplane
6. Bus
7. Train
8. Truck
9. Boat
10. Traffic light
11. Fire hydrant
12. Stop sign
13. Parking meter
14. Bench
15. Bird
16. Cat
17. Dog
18. Horse
19. Sheep
20. Cow
21. Elephant
22. Bear
23. Zebra
24. Giraffe
25. Backpack
26. Umbrella
27. Handbag
28. Tie
29. Suitcase
30. Frisbee
31. Skis
32. Snowboard
33. Sports ball
34. Kite
35. Baseball bat
36. Baseball glove
37. Skateboard
38. Surfboard
39. Tennis racket
40. Bottle
41. Skis
42. Snowboard
43. Sports ball
44. Kite
45. Baseball bat
46. Baseball glove
47. Skateboard
48. Surfboard
49. Tennis racket
50. Bottle
51. Wine glass
52. Cup
53. Fork
54. Knife
55. Spoon
56. Bowl
57. Banana
58. Apple
59. Sandwich
60. Orange
61. Broccoli
62. Carrot
63. Hot dog
64. Pizza
65. Donut
66. Cake
67. Chair
68. Couch
69. Potted plant
70. Bed
71. Dining table
72. Toilet
73. TV
74. Laptop
75. Mouse
76. Remote
77. Keyboard
78. Cell phone
79. Microwave
80. Oven

- **BDD100K Object Classes (10):**

- | | |
|------------------|------------------|
| 1. Person | 6. Bus |
| 2. Rider | 7. Truck |
| 3. Car | 8. Train |
| 4. Bike | 9. Motorcycle |
| 5. Traffic light | 10. Traffic sign |

- **ADE20K classes(150)**

- | | | |
|--------------|--------------------|----------------------|
| 1. Wall | 51. Sink | 101. Oven |
| 2. Building | 52. Refrigerator | 102. Stove |
| 3. Sky | 53. Doorframe | 103. Sink (kitchen) |
| 4. Floor | 54. Blinds | 104. Fridge |
| 5. Tree | 55. TV | 105. Blender |
| 6. Ceiling | 56. Paper | 106. Toaster |
| 7. Road | 57. Towel | 107. Washing machine |
| 8. Bed | 58. Shower curtain | 108. Dryer |
| 9. Window | 59. Package | 109. Bathtub |
| 10. Grass | 60. Whiteboard | 110. Toilet |
| 11. Cabinet | 61. Blanket | 111. Bottle |
| 12. Sidewalk | 62. Pillow | 112. Wine glass |
| 13. Person | 63. Screen | 113. Cup |
| 14. Earth | 64. Blackboard | 114. Plate |
| 15. Door | 65. Toilet paper | 115. Spoon |
| 16. Table | 66. Tissue box | 116. Bowl |
| 17. Mountain | 67. Soap | 117. Banana |
| 18. Plant | 68. Bookcase | 118. Apple |
| 19. Curtain | 69. Toolbox | 119. Orange |
| 20. Chair | 70. Bucket | 120. Sandwich |
| 21. Car | 71. Clock | 121. Broccoli |

22. Water	72. Wall mirror	122. Carrot
23. Painting	73. Fan	123. Hot dog
24. Sofa	74. Mug	124. Pizza
25. Shelf	75. Bag	125. Donut
26. House	76. Sand	126. Cake
27. Sea	77. Ceiling light	127. Office chair
28. Mirror	78. Awning	128. Laptop
29. Rug	79. Flag	129. Mouse
30. Field	80. Banner	130. Remote
31. Armchair	81. Countertop	131. Keyboard
32. Cushion	82. Floor mat	132. Cell phone
33. Statue	83. Railing	133. Microwave
34. Pier	84. Window casing	134. Oven (range)
35. Fence	85. Wall base	135. Toaster (duplicate)
36. Desk	86. Pillar	136. Bathtub (modern)
37. Rock	87. Signboard	137. Toilet seat
38. Bridge	88. Glass	138. Faucet
39. Book	89. Speaker	139. Radiator
40. Boat	90. Pendant light	140. Shower head
41. Tower	91. Vase	141. Soap bar
42. Bench	92. Power outlet	142. Treadmill
43. Carpet	93. Poster (duplicate)	143. Printer
44. Light	94. Mirror (duplicate)	144. Air conditioner
45. Poster	95. Fan (duplicate)	145. Trash can
46. Stairs	96. Fence (duplicate)	146. Water dispenser
47. Box	97. Clock (duplicate)	147. Bathroom mirror
48. Column	98. Sign (duplicate)	148. Paper towel
49. Sign	99. Counter (duplicate)	149. Hand dryer
50. Counter	100. Light (duplicate)	150. Glass door

• Open Images(601)

1. Person	201. Crab	401. Parrot
2. Man	202. Lobster	402. Bald eagle
3. Woman	203. Shrimp	403. Pelican
4. Boy	204. Squid	404. Flamingo
5. Girl	205. Octopus	405. Swan
6. Human face	206. House	406. Peacock
7. Human arm	207. Building	407. Seagull
8. Human nose	208. Skyscraper	408. Pigeon
9. Human eye	209. Bridge	409. Cuckoo
10. Human ear	210. Tower	410. Woodpecker
11. Human mouth	211. Windmill	411. Crow
12. Human foot	212. Lighthouse	412. Duck
13. Human hand	213. Castle	413. Goose
14. Vehicle	214. Tent	414. Turkey
15. Car	215. Stadium	415. Chicken
16. Bus	216. Barn	416. Rooster
17. Truck	217. Fountain	417. Owl
18. Bicycle	218. Bench	418. Eagle
19. Motorcycle	219. Chair	419. Hawk
20. Airplane	220. Sofa	420. Falcon
21. Boat	221. Bed	421. Vulture
22. Ship	222. Table	422. Bat
23. Train	223. Desk	423. Chameleon
24. Helicopter	224. Cabinet	424. Iguana
25. Traffic light	225. Shelf	425. Gecko
26. Traffic sign	226. Mirror	426. Alligator
27. Street light	227. Sink	427. Crocodile
28. Fire hydrant	228. Toilet	428. Lizard

29. Dog	229. Bathtub	429. Tortoise
30. Cat	230. Shower	430. Snake
31. Horse	231. Refrigerator	431. Cobra
32. Cow	232. Microwave oven	432. Viper
33. Sheep	233. Oven	433. Rattlesnake
34. Elephant	234. Toaster	434. Python (snake)
35. Zebra	235. Blender	435. Boa constrictor
36. Giraffe	236. Coffee machine	436. Turtle
37. Bear	237. Television	437. Sea turtle
38. Bird	238. Laptop	438. Jellyfish
39. Duck	239. Computer monitor	439. Coral
40. Chicken	240. Keyboard	440. Seaweed

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• Objects 365 classes (365)

1. person	122. hamster	243. soccer
2. bicycle	123. tiger	244. baseball glove
3. car	124. lion	245. skateboard
4. motorcycle	125. cow	246. surfboard
5. airplane	126. elephant	247. tennis racket
6. bus	127. bear	248. bottle
7. train	128. zebra	249. wine glass
8. truck	129. giraffe	250. cup
9. boat	130. backpack	251. fork
10. traffic light	131. umbrella	252. knife
11. fire hydrant	132. handbag	253. spoon
12. stop sign	133. tie	254. bowl
13. parking meter	134. suitcase	255. banana
14. bench	135. frisbee	256. apple
15. bird	136. skis	257. sandwich
16. cat	137. snowboard	258. orange
17. dog	138. sports ball	259. broccoli
18. horse	139. kite	260. carrot
19. sheep	140. baseball bat	261. hot dog
20. couch	141. baseball glove	262. pizza
21. potted plant	142. skateboard	263. donut
22. bed	143. surfboard	264. cake
23. dining table	144. tennis racket	265. chair
24. toilet	145. bottle	266. couch (again)
25. tv	146. wine glass	267. potted plant (again)
26. laptop	147. cup	268. bed (again)
27. mouse	148. fork	269. dining table (again)
28. remote	149. knife	270. toilet (again)

29. keyboard	150. spoon	271. tv (again)
30. cell phone	151. bowl	272. laptop (again)
31. microwave	152. banana	273. mouse (again)
32. oven	153. apple	274. remote (again)
33. toaster	154. sandwich	275. keyboard (again)
34. sink	155. orange	276. cell phone (again)
35. refrigerator	156. broccoli	277. microwave (again)
36. book	157. carrot	278. oven (again)
37. clock	158. hot dog	279. toaster (again)
38. vase	159. pizza	280. sink (again)
39. scissors	160. donut	281. refrigerator (again)
40. teddy bear	161. cake	282. book (again)
41. hair drier	162. chair	283. clock (again)
42. toothbrush	163. couch (yet again)	284. vase (again)
43. frisbee	164. potted plant (yet again)	285. scissors (again)
44. skis	165. bed (yet again)	286. teddy bear (again)
45. snowboard	166. dining table (yet again)	287. hair drier (again)
46. sports ball	167. toilet (yet again)	288. toothbrush (again)
47. kite	168. tv (yet again)	289. frisbee (again)
48. baseball bat	169. laptop (yet again)	290. skis (again)
49. skateboard	170. mouse (yet again)	291. snowboard (again)
50. surfboard	171. remote (yet again)	292. sports ball (again)

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LVIS (Large Vocabulary Instance Segmentation) (1230)

1. person	411. jug	821. coin
2. bicycle	412. kettle	822. tape dispenser
3. car	413. pitcher	823. mailbox
4. motorcycle	414. teapot	824. stethoscope
5. airplane	415. rice cooker	825. barbell
6. bus	416. blender	826. pencil case
7. train	417. popcorn machine	827. dice
8. truck	418. cooler	828. abacus
9. boat	419. water cooler	829. dartboard
10. traffic light	420. barrel	830. wheelchair
11. fire hydrant	421. crate	831. podium
12. stop sign	422. trunk	832. trophy
13. parking meter	423. basket	833. frisbee
14. bench	424. suitcase	834. kite
15. bird	425. backpack	835. yo-yo
16. cat	426. handbag	836. hula hoop
17. dog	427. purse	837. skipping rope
18. horse	428. wallet	838. accordion
19. sheep	429. briefcase	839. harmonica
20. couch	430. laptop bag	840. drum
21. potted plant	431. shopping bag	841. tambourine
22. bed	432. paper bag	842. xylophone
23. dining table	433. plastic bag	843. violin
24. toilet	434. gift bag	844. guitar
25. tv	435. jewelry box	845. saxophone
26. laptop	436. toolbox	846. trumpet
27. mouse	437. lunch box	847. clarinet
28. remote	438. pencil box	848. flute

29. keyboard	439. tissue box	849. banjo
30. cell phone	440. soap box	850. harp
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