si08ik6ig

June 19, 2024

```python
[3]: import os
     from google.colab import drive
     drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call
drive.mount("/content/drive", force_remount=True).

```python
[4]: !unzip imagens.zip
```

A saída de streaming foi truncada nas últimas 5000 linhas.
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 extracting: imagens/validation/004_deer/woodland_caribou_s_001564.png
   creating: imagens/validation/005_dog/
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000006.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000039.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000107.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000129.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000232.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000260.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000268.png
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 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000415.png
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   inflating: imagens/validation/005_dog/blenheim_spaniel_s_000730.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_000740.png
 extracting: imagens/validation/005_dog/blenheim_spaniel_s_001006.png
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 extracting: imagens/validation/005_dog/blenheim_spaniel_s_001183.png
 extracting: imagens/validation/005_dog/canis_familiaris_s_000067.png
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extracting: imagens/validation/005_dog/canis_familiaris_s_000072.png
extracting: imagens/validation/005_dog/canis_familiaris_s_000074.png
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```

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```

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```

```
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extracting: imagens/validation/006_frog/toad_s_001125.png
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extracting: imagens/validation/008_ship/cargo_vessel_s_001560.png
```

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```

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extracting: imagens/validation/008_ship/cruiser_s_000734.png
 inflating: imagens/validation/008_ship/dinghy_s_000154.png
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extracting: imagens/validation/008_ship/ferryboat_s_000168.png
```

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extracting: imagens/validation/008_ship/ferry_s_000146.png
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extracting: imagens/validation/008_ship/ferry_s_000406.png
extracting: imagens/validation/008_ship/fireboat_s_000007.png
extracting: imagens/validation/008_ship/fireboat_s_000022.png
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```

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extracting: imagens/validation/008_ship/merchant_ship_s_001661.png
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extracting: imagens/validation/008_ship/speedboat_s_001581.png
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extracting: imagens/validation/009_truck/lorry_s_000850.png
extracting: imagens/validation/009_truck/lorry_s_000854.png
extracting: imagens/validation/009_truck/lorry_s_000952.png
extracting: imagens/validation/009_truck/lorry_s_000955.png
extracting: imagens/validation/009_truck/lorry_s_001048.png
extracting: imagens/validation/009_truck/lorry_s_001114.png
extracting: imagens/validation/009_truck/lorry_s_001202.png
extracting: imagens/validation/009_truck/lorry_s_001206.png
```

```
extracting: imagens/validation/009_truck/lorry_s_001211.png
extracting: imagens/validation/009_truck/lorry_s_001310.png
extracting: imagens/validation/009_truck/lorry_s_001337.png
extracting: imagens/validation/009_truck/lorry_s_001358.png
extracting: imagens/validation/009_truck/lorry_s_001457.png
extracting: imagens/validation/009_truck/lorry_s_001518.png
extracting: imagens/validation/009_truck/lorry_s_001554.png
extracting: imagens/validation/009_truck/lorry_s_001558.png
extracting: imagens/validation/009_truck/lorry_s_001598.png
extracting: imagens/validation/009_truck/lorry_s_001746.png
extracting: imagens/validation/009_truck/lorry_s_001819.png
extracting: imagens/validation/009_truck/lorry_s_001856.png
extracting: imagens/validation/009_truck/lorry_s_001881.png
extracting: imagens/validation/009_truck/lorry_s_001883.png
extracting: imagens/validation/009_truck/lorry_s_001909.png
extracting: imagens/validation/009_truck/lorry_s_001937.png
extracting: imagens/validation/009_truck/lorry_s_001944.png
extracting: imagens/validation/009_truck/lorry_s_001953.png
extracting: imagens/validation/009_truck/lorry_s_002101.png
extracting: imagens/validation/009_truck/lorry_s_002103.png
extracting: imagens/validation/009_truck/lorry_s_002149.png
extracting: imagens/validation/009_truck/lorry_s_002191.png
extracting: imagens/validation/009_truck/lorry_s_002249.png
extracting: imagens/validation/009_truck/lorry_s_002252.png
extracting: imagens/validation/009_truck/lorry_s_002257.png
extracting: imagens/validation/009_truck/lorry_s_002300.png
extracting: imagens/validation/009_truck/lorry_s_002326.png
extracting: imagens/validation/009_truck/lorry_s_002359.png
extracting: imagens/validation/009_truck/lorry_s_002422.png
extracting: imagens/validation/009_truck/lorry_s_002445.png
extracting: imagens/validation/009_truck/moving_van_s_000018.png
extracting: imagens/validation/009_truck/moving_van_s_000101.png
extracting: imagens/validation/009_truck/moving_van_s_000136.png
extracting: imagens/validation/009_truck/moving_van_s_000145.png
extracting: imagens/validation/009_truck/moving_van_s_000155.png
extracting: imagens/validation/009_truck/moving_van_s_000173.png
extracting: imagens/validation/009_truck/moving_van_s_000204.png
extracting: imagens/validation/009_truck/moving_van_s_000215.png
extracting: imagens/validation/009_truck/moving_van_s_000266.png
extracting: imagens/validation/009_truck/moving_van_s_000280.png
extracting: imagens/validation/009_truck/moving_van_s_000297.png
extracting: imagens/validation/009_truck/moving_van_s_000377.png
extracting: imagens/validation/009_truck/moving_van_s_000391.png
extracting: imagens/validation/009_truck/moving_van_s_000431.png
extracting: imagens/validation/009_truck/moving_van_s_000623.png
extracting: imagens/validation/009_truck/moving_van_s_000650.png
extracting: imagens/validation/009_truck/moving_van_s_000654.png
extracting: imagens/validation/009_truck/moving_van_s_000655.png
```

```
extracting: imagens/validation/009_truck/moving_van_s_000723.png
extracting: imagens/validation/009_truck/moving_van_s_000864.png
extracting: imagens/validation/009_truck/moving_van_s_000991.png
extracting: imagens/validation/009_truck/moving_van_s_001355.png
extracting: imagens/validation/009_truck/moving_van_s_001536.png
extracting: imagens/validation/009_truck/moving_van_s_001654.png
extracting: imagens/validation/009_truck/moving_van_s_001660.png
extracting: imagens/validation/009_truck/moving_van_s_002086.png
extracting: imagens/validation/009_truck/moving_van_s_002137.png
extracting: imagens/validation/009_truck/moving_van_s_002384.png
extracting: imagens/validation/009_truck/moving_van_s_002389.png
extracting: imagens/validation/009_truck/moving_van_s_002636.png
extracting: imagens/validation/009_truck/moving_van_s_002659.png
extracting: imagens/validation/009_truck/panel_truck_s_000268.png
 inflating: imagens/validation/009_truck/panel_truck_s_000674.png
extracting: imagens/validation/009_truck/pantechnicon_s_000121.png
extracting: imagens/validation/009_truck/pantechnicon_s_000146.png
extracting: imagens/validation/009_truck/pantechnicon_s_000180.png
extracting: imagens/validation/009_truck/pantechnicon_s_000203.png
extracting: imagens/validation/009_truck/pantechnicon_s_000248.png
extracting: imagens/validation/009_truck/pantechnicon_s_000310.png
extracting: imagens/validation/009_truck/rig_s_000046.png
extracting: imagens/validation/009_truck/rig_s_000354.png
 inflating: imagens/validation/009_truck/rig_s_000475.png
extracting: imagens/validation/009_truck/semi_s_000010.png
extracting: imagens/validation/009_truck/semi_s_000012.png
extracting: imagens/validation/009_truck/semi_s_000047.png
extracting: imagens/validation/009_truck/semi_s_000160.png
 inflating: imagens/validation/009_truck/semi_s_000161.png
extracting: imagens/validation/009_truck/semi_s_000518.png
extracting: imagens/validation/009_truck/semi_s_000929.png
extracting: imagens/validation/009_truck/semi_s_001086.png
extracting: imagens/validation/009_truck/semi_s_001110.png
extracting: imagens/validation/009_truck/semi_s_001355.png
extracting: imagens/validation/009_truck/semi_s_001377.png
extracting: imagens/validation/009_truck/semi_s_001613.png
extracting: imagens/validation/009_truck/semi_s_002013.png
extracting: imagens/validation/009_truck/semi_s_002029.png
extracting: imagens/validation/009_truck/semi_s_002094.png
extracting: imagens/validation/009_truck/semi_s_002164.png
extracting: imagens/validation/009_truck/semi_s_002564.png
extracting: imagens/validation/009_truck/semi_s_002745.png
 inflating: imagens/validation/009_truck/sound_truck_s_000331.png
extracting: imagens/validation/009_truck/sound_truck_s_000348.png
extracting: imagens/validation/009_truck/sound_truck_s_000419.png
extracting: imagens/validation/009_truck/sound_truck_s_000597.png
extracting: imagens/validation/009_truck/sound_truck_s_000913.png
extracting: imagens/validation/009_truck/sound_truck_s_001056.png
```

```
extracting: imagens/validation/009_truck/sound_truck_s_001609.png
extracting: imagens/validation/009_truck/sound_truck_s_001801.png
extracting: imagens/validation/009_truck/sound_truck_s_002013.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000127.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000142.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000178.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000279.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000281.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000307.png
extracting: imagens/validation/009_truck/tandem_trailer_s_000461.png
extracting: imagens/validation/009_truck/tandem_trailer_s_001313.png
extracting: imagens/validation/009_truck/tandem_trailer_s_001697.png
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extracting: imagens/validation/009_truck/tipper_lorry_s_000014.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000061.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000171.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000293.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000322.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000328.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000374.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000405.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000408.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000412.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000416.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000477.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000498.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000500.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000503.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000504.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000518.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000526.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000531.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000589.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000591.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000614.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000632.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000666.png
extracting: imagens/validation/009_truck/tipper_lorry_s_000689.png
extracting: imagens/validation/009_truck/tipper_s_000004.png
extracting: imagens/validation/009_truck/tipper_s_000015.png
extracting: imagens/validation/009_truck/tipper_s_000136.png
extracting: imagens/validation/009_truck/tipper_s_000676.png
extracting: imagens/validation/009_truck/tipper_s_000737.png
extracting: imagens/validation/009_truck/tipper_s_000805.png
extracting: imagens/validation/009_truck/tipper_s_001017.png
extracting: imagens/validation/009_truck/tipper_s_001036.png
extracting: imagens/validation/009_truck/tipper_s_001106.png
extracting: imagens/validation/009_truck/tipper_s_001474.png
```

```
extracting: imagens/validation/009_truck/tipper_s_001475.png
extracting: imagens/validation/009_truck/tipper_s_001582.png
extracting: imagens/validation/009_truck/tipper_s_001623.png
extracting: imagens/validation/009_truck/tipper_s_001725.png
extracting: imagens/validation/009_truck/tipper_s_001740.png
extracting: imagens/validation/009_truck/tipper_s_001749.png
extracting: imagens/validation/009_truck/tipper_s_001815.png
extracting: imagens/validation/009_truck/tipper_s_001868.png
extracting: imagens/validation/009_truck/tipper_s_001958.png
extracting: imagens/validation/009_truck/tipper_s_002018.png
extracting: imagens/validation/009_truck/tipper_s_002066.png
extracting: imagens/validation/009_truck/tipper_s_002115.png
extracting: imagens/validation/009_truck/tipper_s_002154.png
extracting: imagens/validation/009_truck/tipper_s_002190.png
extracting: imagens/validation/009_truck/tipper_truck_s_000002.png
extracting: imagens/validation/009_truck/tipper_truck_s_000009.png
extracting: imagens/validation/009_truck/tipper_truck_s_000021.png
extracting: imagens/validation/009_truck/tipper_truck_s_000066.png
extracting: imagens/validation/009_truck/tipper_truck_s_000070.png
extracting: imagens/validation/009_truck/tipper_truck_s_000072.png
extracting: imagens/validation/009_truck/tipper_truck_s_000088.png
extracting: imagens/validation/009_truck/tipper_truck_s_000125.png
extracting: imagens/validation/009_truck/tipper_truck_s_000136.png
extracting: imagens/validation/009_truck/tipper_truck_s_000191.png
extracting: imagens/validation/009_truck/tipper_truck_s_000193.png
extracting: imagens/validation/009_truck/tipper_truck_s_000223.png
extracting: imagens/validation/009_truck/tipper_truck_s_000224.png
extracting: imagens/validation/009_truck/tipper_truck_s_000240.png
extracting: imagens/validation/009_truck/tipper_truck_s_000277.png
extracting: imagens/validation/009_truck/tipper_truck_s_000282.png
extracting: imagens/validation/009_truck/tipper_truck_s_000284.png
extracting: imagens/validation/009_truck/tipper_truck_s_000288.png
extracting: imagens/validation/009_truck/tipper_truck_s_000318.png
extracting: imagens/validation/009_truck/tipper_truck_s_000370.png
extracting: imagens/validation/009_truck/tipper_truck_s_000376.png
extracting: imagens/validation/009_truck/tipper_truck_s_000420.png
extracting: imagens/validation/009_truck/tipper_truck_s_000424.png
extracting: imagens/validation/009_truck/tipper_truck_s_000472.png
extracting: imagens/validation/009_truck/tipper_truck_s_000502.png
extracting: imagens/validation/009_truck/tipper_truck_s_000513.png
extracting: imagens/validation/009_truck/tipper_truck_s_000570.png
extracting: imagens/validation/009_truck/tipper_truck_s_000571.png
extracting: imagens/validation/009_truck/tipper_truck_s_000595.png
extracting: imagens/validation/009_truck/tipper_truck_s_000674.png
extracting: imagens/validation/009_truck/tipper_truck_s_000676.png
extracting: imagens/validation/009_truck/tipper_truck_s_000697.png
extracting: imagens/validation/009_truck/tipper_truck_s_000755.png
extracting: imagens/validation/009_truck/tipper_truck_s_000759.png
```

```
extracting: imagens/validation/009_truck/tipper_truck_s_000766.png
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extracting: imagens/validation/009_truck/tipper_truck_s_000784.png
extracting: imagens/validation/009_truck/tipper_truck_s_000790.png
extracting: imagens/validation/009_truck/tipper_truck_s_000815.png
extracting: imagens/validation/009_truck/tipper_truck_s_000856.png
extracting: imagens/validation/009_truck/tipper_truck_s_000868.png
extracting: imagens/validation/009_truck/tipper_truck_s_000882.png
extracting: imagens/validation/009_truck/tipper_truck_s_000888.png
extracting: imagens/validation/009_truck/tipper_truck_s_000905.png
extracting: imagens/validation/009_truck/tipper_truck_s_000947.png
extracting: imagens/validation/009_truck/tipper_truck_s_000958.png
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extracting: imagens/validation/009_truck/tipper_truck_s_001277.png
extracting: imagens/validation/009_truck/tipper_truck_s_001376.png
extracting: imagens/validation/009_truck/tipper_truck_s_001414.png
extracting: imagens/validation/009_truck/tipper_truck_s_001438.png
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extracting: imagens/validation/009_truck/tipper_truck_s_001582.png
extracting: imagens/validation/009_truck/tipper_truck_s_001772.png
extracting: imagens/validation/009_truck/tipper_truck_s_001809.png
extracting: imagens/validation/009_truck/tipper_truck_s_001853.png
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extracting: imagens/validation/009_truck/tip_truck_s_000141.png
extracting: imagens/validation/009_truck/tip_truck_s_000142.png
extracting: imagens/validation/009_truck/tip_truck_s_000200.png
extracting: imagens/validation/009_truck/tip_truck_s_000213.png
extracting: imagens/validation/009_truck/tip_truck_s_000568.png
extracting: imagens/validation/009_truck/tip_truck_s_000819.png
extracting: imagens/validation/009_truck/tip_truck_s_000998.png
extracting: imagens/validation/009_truck/tow_car_s_000013.png
extracting: imagens/validation/009_truck/tow_truck_s_000048.png
extracting: imagens/validation/009_truck/tow_truck_s_000141.png
extracting: imagens/validation/009_truck/tow_truck_s_000154.png
extracting: imagens/validation/009_truck/tow_truck_s_000221.png
extracting: imagens/validation/009_truck/tow_truck_s_000626.png
extracting: imagens/validation/009_truck/tow_truck_s_000654.png
extracting: imagens/validation/009_truck/tow_truck_s_000762.png
extracting: imagens/validation/009_truck/tow_truck_s_000968.png
extracting: imagens/validation/009_truck/tow_truck_s_001220.png
extracting: imagens/validation/009_truck/tow_truck_s_001660.png
extracting: imagens/validation/009_truck/tow_truck_s_001766.png
extracting: imagens/validation/009_truck/tow_truck_s_001956.png
extracting: imagens/validation/009_truck/tractor_s_000319.png
```

```
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extracting: imagens/validation/009_truck/tractor_trailer_s_000072.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000089.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000092.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000111.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000146.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000150.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000157.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000163.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000175.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000259.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000297.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000334.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000478.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000709.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000716.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000731.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000743.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000809.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000818.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000922.png
extracting: imagens/validation/009_truck/tractor_trailer_s_000990.png
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extracting: imagens/validation/009_truck/tractor_trailer_s_001790.png
extracting: imagens/validation/009_truck/tractor_trailer_s_001813.png
extracting: imagens/validation/009_truck/tractor_trailer_s_001837.png
extracting: imagens/validation/009_truck/tractor_trailer_s_001898.png
extracting: imagens/validation/009_truck/tractor_trailer_s_002044.png
extracting: imagens/validation/009_truck/trailer_truck_s_000025.png
extracting: imagens/validation/009_truck/trailer_truck_s_000050.png
extracting: imagens/validation/009_truck/trailer_truck_s_000089.png
extracting: imagens/validation/009_truck/trailer_truck_s_000226.png
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extracting: imagens/validation/009_truck/trailer_truck_s_000300.png
extracting: imagens/validation/009_truck/trailer_truck_s_000431.png
extracting: imagens/validation/009_truck/trailer_truck_s_000463.png
extracting: imagens/validation/009_truck/trailer_truck_s_000504.png
extracting: imagens/validation/009_truck/trailer_truck_s_000506.png
extracting: imagens/validation/009_truck/trailer_truck_s_000572.png
extracting: imagens/validation/009_truck/trailer_truck_s_000585.png
extracting: imagens/validation/009_truck/trailer_truck_s_000609.png
```

```
extracting: imagens/validation/009_truck/trailer_truck_s_000671.png
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extracting: imagens/validation/009_truck/trailer_truck_s_001165.png
extracting: imagens/validation/009_truck/trailer_truck_s_001220.png
extracting: imagens/validation/009_truck/trailer_truck_s_001429.png
extracting: imagens/validation/009_truck/trailer_truck_s_001605.png
extracting: imagens/validation/009_truck/trailer_truck_s_001629.png
extracting: imagens/validation/009_truck/trailer_truck_s_001630.png
extracting: imagens/validation/009_truck/trailer_truck_s_001670.png
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extracting: imagens/validation/009_truck/transporter_s_000360.png
extracting: imagens/validation/009_truck/transporter_s_000379.png
extracting: imagens/validation/009_truck/transporter_s_001235.png
extracting: imagens/validation/009_truck/trucking_rig_s_000007.png
extracting: imagens/validation/009_truck/trucking_rig_s_000016.png
extracting: imagens/validation/009_truck/trucking_rig_s_000032.png
extracting: imagens/validation/009_truck/trucking_rig_s_000050.png
extracting: imagens/validation/009_truck/trucking_rig_s_000119.png
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extracting: imagens/validation/009_truck/trucking_rig_s_000210.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001105.png
extracting: imagens/validation/009_truck/trucking_rig_s_001143.png
extracting: imagens/validation/009_truck/trucking_rig_s_001147.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001176.png
extracting: imagens/validation/009_truck/trucking_rig_s_001186.png
extracting: imagens/validation/009_truck/trucking_rig_s_001197.png
extracting: imagens/validation/009_truck/trucking_rig_s_001202.png
```

```
extracting: imagens/validation/009_truck/trucking_rig_s_001203.png
extracting: imagens/validation/009_truck/trucking_rig_s_001211.png
extracting: imagens/validation/009_truck/trucking_rig_s_001212.png
extracting: imagens/validation/009_truck/trucking_rig_s_001245.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001332.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001476.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001503.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001545.png
extracting: imagens/validation/009_truck/trucking_rig_s_001593.png
extracting: imagens/validation/009_truck/trucking_rig_s_001595.png
extracting: imagens/validation/009_truck/trucking_rig_s_001606.png
extracting: imagens/validation/009_truck/trucking_rig_s_001607.png
extracting: imagens/validation/009_truck/trucking_rig_s_001611.png
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extracting: imagens/validation/009_truck/trucking_rig_s_001615.png
extracting: imagens/validation/009_truck/trucking_rig_s_001662.png
extracting: imagens/validation/009_truck/trucking_rig_s_001666.png
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extracting: imagens/validation/009_truck/truck_s_000092.png
extracting: imagens/validation/009_truck/truck_s_000097.png
extracting: imagens/validation/009_truck/truck_s_000121.png
extracting: imagens/validation/009_truck/truck_s_000164.png
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```

```
extracting: imagens/validation/009_truck/truck_s_000206.png
extracting: imagens/validation/009_truck/truck_s_000216.png
extracting: imagens/validation/009_truck/truck_s_000264.png
extracting: imagens/validation/009_truck/truck_s_000288.png
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extracting: imagens/validation/009_truck/truck_s_000399.png
extracting: imagens/validation/009_truck/truck_s_000466.png
extracting: imagens/validation/009_truck/truck_s_000572.png
extracting: imagens/validation/009_truck/truck_s_000579.png
extracting: imagens/validation/009_truck/truck_s_000610.png
extracting: imagens/validation/009_truck/truck_s_000618.png
extracting: imagens/validation/009_truck/truck_s_000628.png
extracting: imagens/validation/009_truck/truck_s_000646.png
extracting: imagens/validation/009_truck/truck_s_000681.png
extracting: imagens/validation/009_truck/truck_s_000705.png
extracting: imagens/validation/009_truck/truck_s_000719.png
extracting: imagens/validation/009_truck/truck_s_000799.png
extracting: imagens/validation/009_truck/truck_s_000900.png
extracting: imagens/validation/009_truck/truck_s_000919.png
extracting: imagens/validation/009_truck/truck_s_001068.png
extracting: imagens/validation/009_truck/truck_s_001102.png
extracting: imagens/validation/009_truck/truck_s_001114.png
extracting: imagens/validation/009_truck/truck_s_001170.png
extracting: imagens/validation/009_truck/truck_s_001247.png
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extracting: imagens/validation/009_truck/truck_s_001313.png
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extracting: imagens/validation/009_truck/truck_s_001391.png
extracting: imagens/validation/009_truck/truck_s_001504.png
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extracting: imagens/validation/009_truck/truck_s_001610.png
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extracting: imagens/validation/009_truck/truck_s_001783.png
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extracting: imagens/validation/009_truck/truck_s_001934.png
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```

```
extracting: imagens/validation/009_truck/truck_s_002069.png
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extracting: imagens/validation/009_truck/truck_s_002137.png
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extracting: imagens/validation/009_truck/truck_s_002236.png
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extracting: imagens/validation/009_truck/van_s_000165.png
extracting: imagens/validation/009_truck/wrecker_s_000151.png
extracting: imagens/validation/009_truck/wrecker_s_000215.png
extracting: imagens/validation/009_truck/wrecker_s_000227.png
extracting: imagens/validation/009_truck/wrecker_s_000330.png
extracting: imagens/validation/009_truck/wrecker_s_000369.png
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extracting: imagens/validation/009_truck/wrecker_s_000519.png
extracting: imagens/validation/009_truck/wrecker_s_000949.png
extracting: imagens/validation/009_truck/wrecker_s_000957.png
extracting: imagens/validation/009_truck/wrecker_s_001037.png
extracting: imagens/validation/009_truck/wrecker_s_001102.png
extracting: imagens/validation/009_truck/wrecker_s_001139.png
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extracting: imagens/validation/009_truck/wrecker_s_001349.png
extracting: imagens/validation/009_truck/wrecker_s_001478.png
extracting: imagens/validation/009_truck/wrecker_s_001619.png
extracting: imagens/validation/009_truck/wrecker_s_001764.png
extracting: imagens/validation/009_truck/wrecker_s_001822.png
extracting: imagens/validation/009_truck/wrecker_s_001825.png
extracting: imagens/validation/009_truck/wrecker_s_001851.png
extracting: imagens/validation/009_truck/wrecker_s_001869.png
extracting: imagens/validation/009_truck/wrecker_s_001962.png
extracting: imagens/validation/009_truck/wrecker_s_002157.png
extracting: imagens/validation/009_truck/wrecker_s_002186.png
extracting: imagens/validation/009_truck/wrecker_s_002242.png
extracting: imagens/validation/009_truck/wrecker_s_002251.png
 inflating: imagens/validation/009_truck/wrecker_s_002282.png
extracting: imagens/validation/009_truck/wrecker_s_002410.png
```

```python
[28]: base_dir = '/content/imagens'  # Diretório base após descompactação
      train_dir = os.path.join(base_dir, 'train')
      validation_dir = os.path.join(base_dir, 'validation')
      test_dir = os.path.join(base_dir, 'test')
```

```python
[29]: from keras.utils import image_dataset_from_directory
      IMG_SIZE = 150
      train_dataset = image_dataset_from_directory(
          train_dir,
```

```
        image_size=(IMG_SIZE, IMG_SIZE),
        batch_size=32,
)
validation_dataset = image_dataset_from_directory(
        validation_dir,
        image_size=(IMG_SIZE, IMG_SIZE),
        batch_size=32,
)
test_dataset = image_dataset_from_directory(
        test_dir,
        image_size=(IMG_SIZE, IMG_SIZE),
        batch_size=32,
)
```

```
Found 40000 files belonging to 10 classes.
Found 10000 files belonging to 10 classes.
Found 10000 files belonging to 10 classes.
```

[30]:
```python
from tensorflow import keras
from tensorflow.keras import layers
from tensorflow.keras.preprocessing import image
import numpy as np
import tensorflow as tf  # Import TensorFlow explicitly

from tensorflow.keras.applications import VGG16  # Correct import statement for
 ↪VGG16

conv_base = VGG16(weights='imagenet', include_top=False, input_shape=(IMG_SIZE,
 ↪IMG_SIZE, 3))
conv_base.trainable = False


data_augmentation = keras.Sequential(
 [
 layers.RandomFlip("horizontal"),
 layers.RandomRotation(0.1),
 layers.RandomZoom(0.2),
 ]
)

# Definição do modelo denso a partir das características extraídas
inputs = keras.Input(shape=(IMG_SIZE, IMG_SIZE, 3))
x = data_augmentation(inputs)
x = keras.applications.vgg16.preprocess_input(x)
x = conv_base(x)
x = layers.Flatten()(x)
x = layers.Dense(256, activation='relu')(x)
```

```python
x = layers.Dropout(0.5)(x)
outputs = layers.Dense(10, activation="softmax")(x)
model = keras.Model(inputs, outputs)
```

```python
[31]: from tensorflow.keras.optimizers import RMSprop

model.compile(
    optimizer=RMSprop(),  # Use RMSprop optimizer
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']
)
```

```python
[32]: from keras.callbacks import ReduceLROnPlateau

reduce_lr = ReduceLROnPlateau(
    monitor='val_loss',
    factor=0.2,
    patience=2,
    min_lr=0.001
)
```

```python
[33]: from keras.callbacks import EarlyStopping

early_stopping = EarlyStopping(
    monitor='val_loss',
    patience=10,
    restore_best_weights=True
)
```

```python
[34]: from keras.callbacks import ModelCheckpoint

model_checkpoint = ModelCheckpoint(
    filepath='models/ModelT_RMSpropOptimizerComData.h5',
    save_best_only=True,
    monitor='val_loss'
)
```

```python
[35]: callbacks = [reduce_lr, early_stopping, model_checkpoint]

history = model.fit(
    train_dataset,
    validation_data=validation_dataset,
    epochs=50,
    callbacks=callbacks
)
```

Epoch 1/50

```
1250/1250 [==============================] - 115s 90ms/step - loss: 1.6746 -
accuracy: 0.6328 - val_loss: 0.9614 - val_accuracy: 0.7996 - lr: 0.0010

/usr/local/lib/python3.10/dist-packages/keras/src/engine/training.py:3103:
UserWarning: You are saving your model as an HDF5 file via `model.save()`. This
file format is considered legacy. We recommend using instead the native Keras
format, e.g. `model.save('my_model.keras')`.
  saving_api.save_model(

Epoch 2/50
1250/1250 [==============================] - 132s 106ms/step - loss: 1.3347 -
accuracy: 0.7061 - val_loss: 1.0627 - val_accuracy: 0.8285 - lr: 0.0010
Epoch 3/50
1250/1250 [==============================] - 114s 91ms/step - loss: 1.3129 -
accuracy: 0.7257 - val_loss: 0.8944 - val_accuracy: 0.8446 - lr: 0.0010
Epoch 4/50
1250/1250 [==============================] - 112s 89ms/step - loss: 1.3098 -
accuracy: 0.7336 - val_loss: 1.0175 - val_accuracy: 0.8418 - lr: 0.0010
Epoch 5/50
1250/1250 [==============================] - 112s 89ms/step - loss: 1.3436 -
accuracy: 0.7384 - val_loss: 1.0289 - val_accuracy: 0.8462 - lr: 0.0010
Epoch 6/50
1250/1250 [==============================] - 112s 89ms/step - loss: 1.3338 -
accuracy: 0.7458 - val_loss: 1.0364 - val_accuracy: 0.8359 - lr: 0.0010
Epoch 7/50
1250/1250 [==============================] - 111s 89ms/step - loss: 1.3571 -
accuracy: 0.7420 - val_loss: 1.0533 - val_accuracy: 0.8416 - lr: 0.0010
Epoch 8/50
1250/1250 [==============================] - 111s 89ms/step - loss: 1.3608 -
accuracy: 0.7411 - val_loss: 1.2009 - val_accuracy: 0.8408 - lr: 0.0010
Epoch 9/50
1250/1250 [==============================] - 111s 88ms/step - loss: 1.3835 -
accuracy: 0.7476 - val_loss: 1.3156 - val_accuracy: 0.8400 - lr: 0.0010
Epoch 10/50
1250/1250 [==============================] - 111s 88ms/step - loss: 1.3985 -
accuracy: 0.7462 - val_loss: 1.3305 - val_accuracy: 0.8495 - lr: 0.0010
Epoch 11/50
1250/1250 [==============================] - 111s 89ms/step - loss: 1.3959 -
accuracy: 0.7552 - val_loss: 1.2805 - val_accuracy: 0.8463 - lr: 0.0010
Epoch 12/50
1250/1250 [==============================] - 111s 89ms/step - loss: 1.4266 -
accuracy: 0.7463 - val_loss: 1.3615 - val_accuracy: 0.8445 - lr: 0.0010
Epoch 13/50
1250/1250 [==============================] - 112s 89ms/step - loss: 1.4310 -
accuracy: 0.7467 - val_loss: 1.4117 - val_accuracy: 0.8422 - lr: 0.0010
```

```python
import matplotlib.pyplot as plt
plt.plot(history.history['accuracy'], 'bo', label='Training acc')
```

```python
plt.plot(history.history['val_accuracy'], 'b', label='Validation acc')
plt.title('Training and validation accuracy')
plt.xlabel('Epochs')
plt.ylabel('Accuracy')
plt.legend()
plt.show()

plt.plot(history.history['loss'], 'bo', label='Training loss')
plt.plot(history.history['val_loss'], 'b', label='Validation loss')
plt.title('Training and validation loss')
plt.xlabel('Epochs')
plt.ylabel('Loss')
plt.legend()
plt.show()
```

Training and validation loss
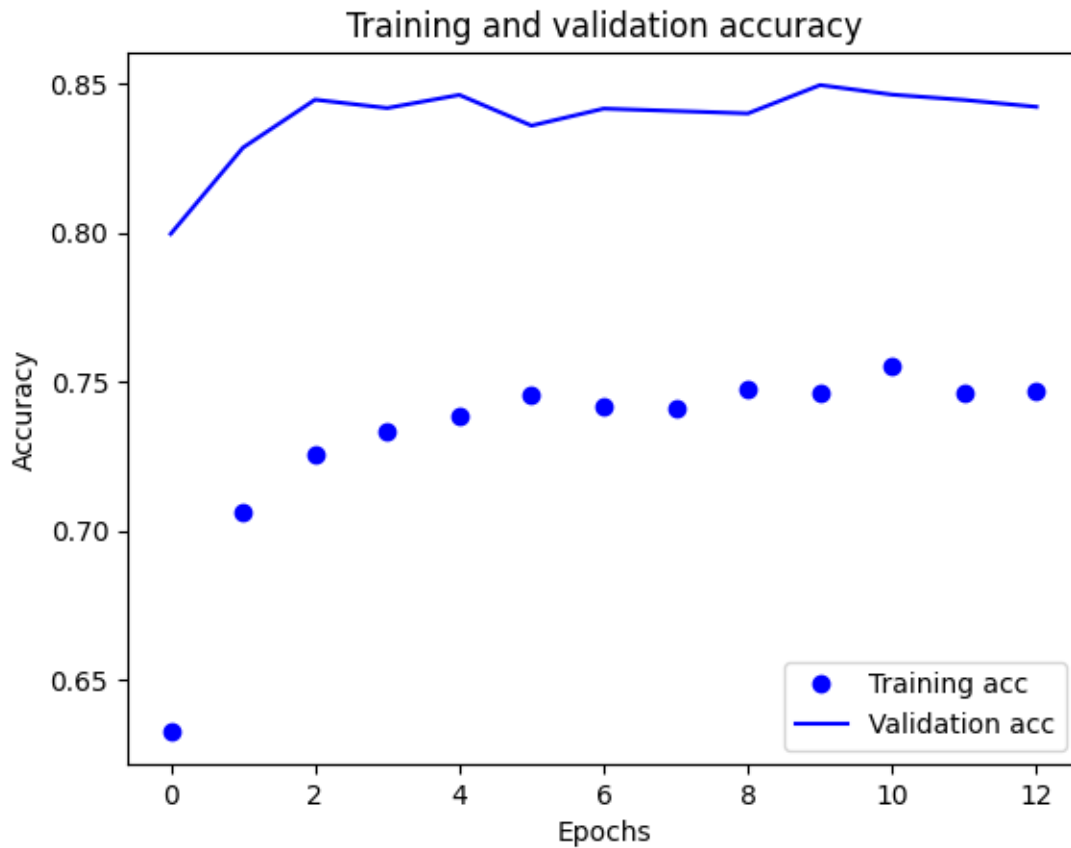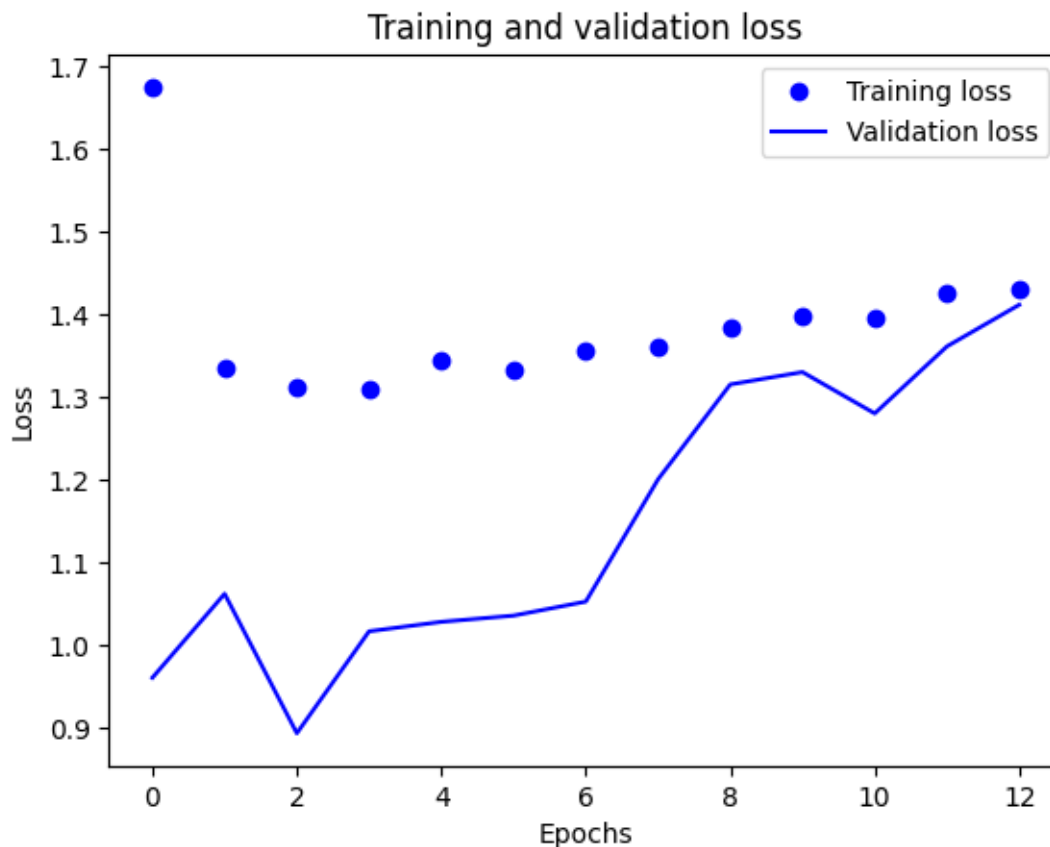
[37]:
```
val_loss, val_acc = model.evaluate(validation_dataset)
print('Validation Accuracy:', val_acc)
```

313/313 [==============================] - 22s 69ms/step - loss: 0.8944 -
accuracy: 0.8446
Validation Accuracy: 0.8446000218391418

[38]:
```
loss, accuracy = model.evaluate(test_dataset)
print(f"Loss: {loss}, Accuracy: {accuracy}")
```

313/313 [==============================] - 22s 69ms/step - loss: 0.8187 -
accuracy: 0.8432
Loss: 0.8187240958213806, Accuracy: 0.8432000279426575

[39]:
```
import numpy as np
from sklearn.metrics import confusion_matrix, classification_report
import seaborn as sns
import matplotlib.pyplot as plt

# Function to evaluate the model and get true and predicted labels
```

```python
def evaluate_model(model, dataset):
    all_labels = []
    all_predictions = []

    for images, labels in dataset:
        predictions = model.predict(images)
        predicted_labels = np.argmax(predictions, axis=1)
        true_labels = labels.numpy()  # Convert to numpy array if not already

        all_labels.extend(true_labels)
        all_predictions.extend(predicted_labels)

    return np.array(all_labels), np.array(all_predictions)

# Get true and predicted labels for the test dataset
true_labels, predicted_labels = evaluate_model(model, test_dataset)

# Compute the confusion matrix
conf_matrix = confusion_matrix(true_labels, predicted_labels)

# Plot the confusion matrix
plt.figure(figsize=(10, 8))
sns.heatmap(conf_matrix, annot=True, fmt="d", cmap="Blues",
 ↪xticklabels=range(10), yticklabels=range(10))
plt.title('Matriz de Confusão')
plt.xlabel('Previsão')
plt.ylabel('Realidade')
plt.show()

# Print classification report
class_names = [str(i) for i in range(10)]  # Define class names based on your
 ↪dataset
print(classification_report(true_labels, predicted_labels,
 ↪target_names=class_names))

# Extract precision, recall, and F1-score for each class from classification
 ↪report
report = classification_report(true_labels, predicted_labels,
 ↪target_names=class_names, output_dict=True)

metrics = {'precision': [], 'recall': [], 'f1-score': []}
for cls in class_names:
    metrics['precision'].append(report[cls]['precision'])
    metrics['recall'].append(report[cls]['recall'])
    metrics['f1-score'].append(report[cls]['f1-score'])

# Plot precision, recall, and F1-score
```

```
plt.figure(figsize=(10, 6))
bar_width = 0.2
index = np.arange(len(class_names))

plt.bar(index, metrics['precision'], bar_width, label='Precision')
plt.bar(index + bar_width, metrics['recall'], bar_width, label='Recall')
plt.bar(index + 2*bar_width, metrics['f1-score'], bar_width, label='F1-score')

plt.xlabel('Class')
plt.ylabel('Scores')
plt.title('Precision, Recall e F1-score para cada classe')
plt.xticks(index + bar_width, class_names)
plt.legend()

plt.tight_layout()
plt.show()
```

```
1/1 [==============================] - 0s 147ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 26ms/step
1/1 [==============================] - 0s 23ms/step
1/1 [==============================] - 0s 26ms/step
1/1 [==============================] - 0s 22ms/step
1/1 [==============================] - 0s 21ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 28ms/step
1/1 [==============================] - 0s 29ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 21ms/step
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 22ms/step
1/1 [==============================] - 0s 22ms/step
1/1 [==============================] - 0s 21ms/step
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1/1 [==============================] - 0s 25ms/step
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1/1 [==============================] - 0s 22ms/step
1/1 [==============================] - 0s 21ms/step
1/1 [==============================] - 0s 21ms/step
1/1 [==============================] - 0s 31ms/step
1/1 [==============================] - 0s 31ms/step
1/1 [==============================] - 0s 24ms/step
1/1 [==============================] - 0s 21ms/step
1/1 [==============================] - 0s 23ms/step
1/1 [==============================] - 0s 21ms/step
```

```
1/1 [==============================] - 0s 25ms/step
1/1 [==============================] - 0s 22ms/step
1/1 [==============================] - 0s 21ms/step
1/1 [==============================] - 0s 22ms/step
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Matriz de Confusão
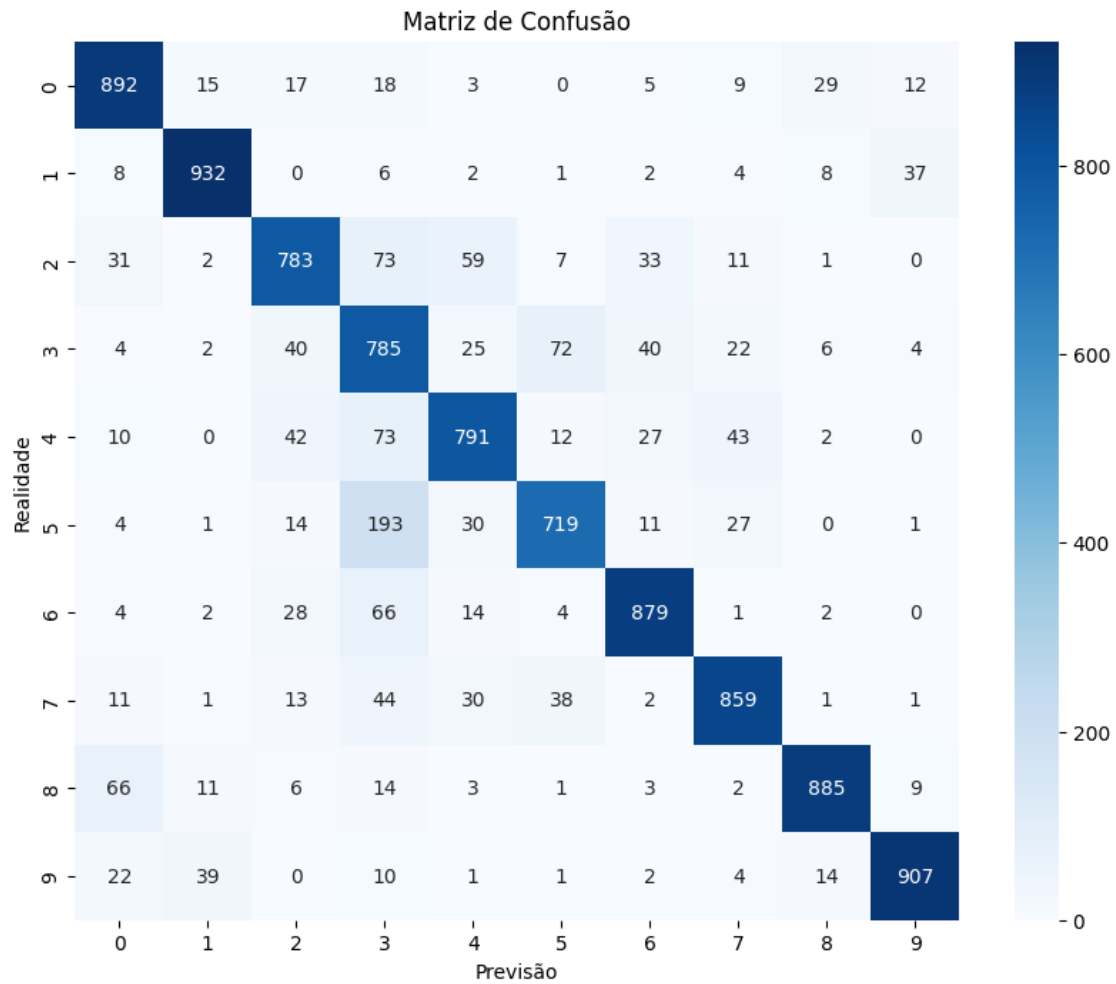
```
              precision    recall  f1-score   support

           0       0.85      0.89      0.87      1000
           1       0.93      0.93      0.93      1000
           2       0.83      0.78      0.81      1000
           3       0.61      0.79      0.69      1000
           4       0.83      0.79      0.81      1000
           5       0.84      0.72      0.78      1000
           6       0.88      0.88      0.88      1000
           7       0.87      0.86      0.87      1000
           8       0.93      0.89      0.91      1000
           9       0.93      0.91      0.92      1000

    accuracy                           0.84     10000
   macro avg       0.85      0.84      0.84     10000
weighted avg       0.85      0.84      0.84     10000
```

Precision, Recall e F1-score para cada classe