**Scenarios to Count People**

**Scenario 1:** Counting people at a place at the same time and finding the maximum number of people at that place.

**Video link 1:** <https://www.gettyimages.in/detail/video/high-angle-view-of-people-and-healthcare-professionals-stock-footage/1152080347?adppopup=trued>

**Processed Video 1:** <https://youtu.be/toukCzcocyQ> ,

<https://youtu.be/GRNdVsyK-SQ>

**Result 1:** Model can count people at instant and store the maximum number.

**Usage areas 1:** To check maximum number allowable in store. Owner who wants to know the maximum number of people that visit her/his store in a day or month.

**Scenario 2:** Counting people that pass through a place.

**Video link 2:** <https://www.shutterstock.com/video/clip-18266995-top-view-on-people-walking-office-shopping>

**Processed Video 2:**

<https://youtu.be/oUPjVcSnhis> (it counts if one person passes at instant)

**Result 2:** As a first result I was able to count people if one person passes at instant.

**Usage areas 2:** Can be used in cameras that capture the turnstile in which one person passes at a time.

**Scenario 3:** Counting people that walk in a place.

**Video link 3:** <https://www.shutterstock.com/video/clip-18266995-top-view-on-people-walking-office-shopping>

**Processed Video 3:**

<https://youtu.be/r7r4eu_t3A8>

<https://youtu.be/bfWqy7mcaec> : Counting people going in and out.

**Result 3:** It can count people that walk through. I tested it in other videos and noticed that it sometimes missed one or two people. (because of the velocity)

**Usage areas 3:** Cannot be used if the number of people that are going and out need to be exact.

**Scenario 4:** Counting the number of people using turnstiles and how many people are in and out.

**Video links 4:** <https://www.shutterstock.com/tr/video/clip-1037774441-overhead-shot-security-gates>

<https://www.shutterstock.com/video/clip-21666043-business-people-entering-office-trough-security-gates>

**Processed Videos 4:**

<https://youtu.be/B_bqLzUmvbA> Counting number of people goes in

<https://youtu.be/gtbWu2eK2NA> Counting number of people goes in out with different doors

<https://youtu.be/Yy42Mk2VEkg> Counting number of people goes in out

**Result 4:**

Code works as it is expected, it can count people going in and out.

**Usage areas 4:**

Firms that want to know the number of people in and out also count the number of people that visit the firm.

**Scenario 5:** Counting people that are walking in the side view.

**Video links 5:** <https://www.gettyimages.com/detail/video/people-walking-up-and-down-sidewalk-tribeca-new-york-usa-stock-footage/85314342>

**Processed Videos 5:**

<https://youtu.be/O8rJK-u4Zpw>

**Result 5:**

In this view, the problem is that sometimes people walk side by side so the detector could detect so that our algorithm fails to count. However, this is not a problem caused by our algorithm, it is natural since computers (even people) cannot see person behind a person.

**Scenario 6:** Counting people that are walking in the front view.

**Processed Videos 6:**

<https://www.youtube.com/watch?v=s8Y7hn_oVuU>

<https://youtu.be/pu7fXlotAhc>

**Result 6:**

In this view, the problem is that sometimes people walk behind another person .Hence, it does not seem to be a good view to count people.