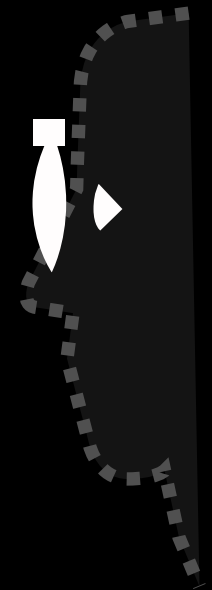


The Extraordinary Detector(TED)

A Spectacles Display Device for Initiating the Observation



the common steps of artistic and scientific methodology

- Observe the real world
- Invent new concepts
- Re-interpret real world phenomena
- Communicate to increase understanding
- Absorb the ideas into the general culture

the difficulty in observing the extraordinary
in the ordinary life...

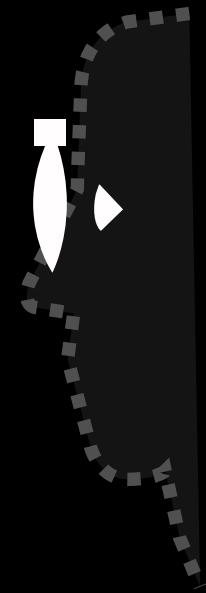
- The familiarity with the environment interferes in discovering the unusual
- Deformed objects also lose visual attention in a familiar scene
- Unusual objects in the peripheral vision are not easily noticed

assisting the ability to notice the visual unusualness ?

- initiates the conscious observation
- increase the curiosity
- guides to closer observation

The Extraordinary Detector(TED)

is the spectacles type of head-mount display
which can enhance the ability to observe with vision



1. by finding the unusual context of a object
2. by transforming the visual perception of unusual objects into more salient form

I. by finding the unusual context of a object

- the scene and object recognition process for labeling the objects of real-time vision
- the commonsense inference process for detecting the unusual context among the objects

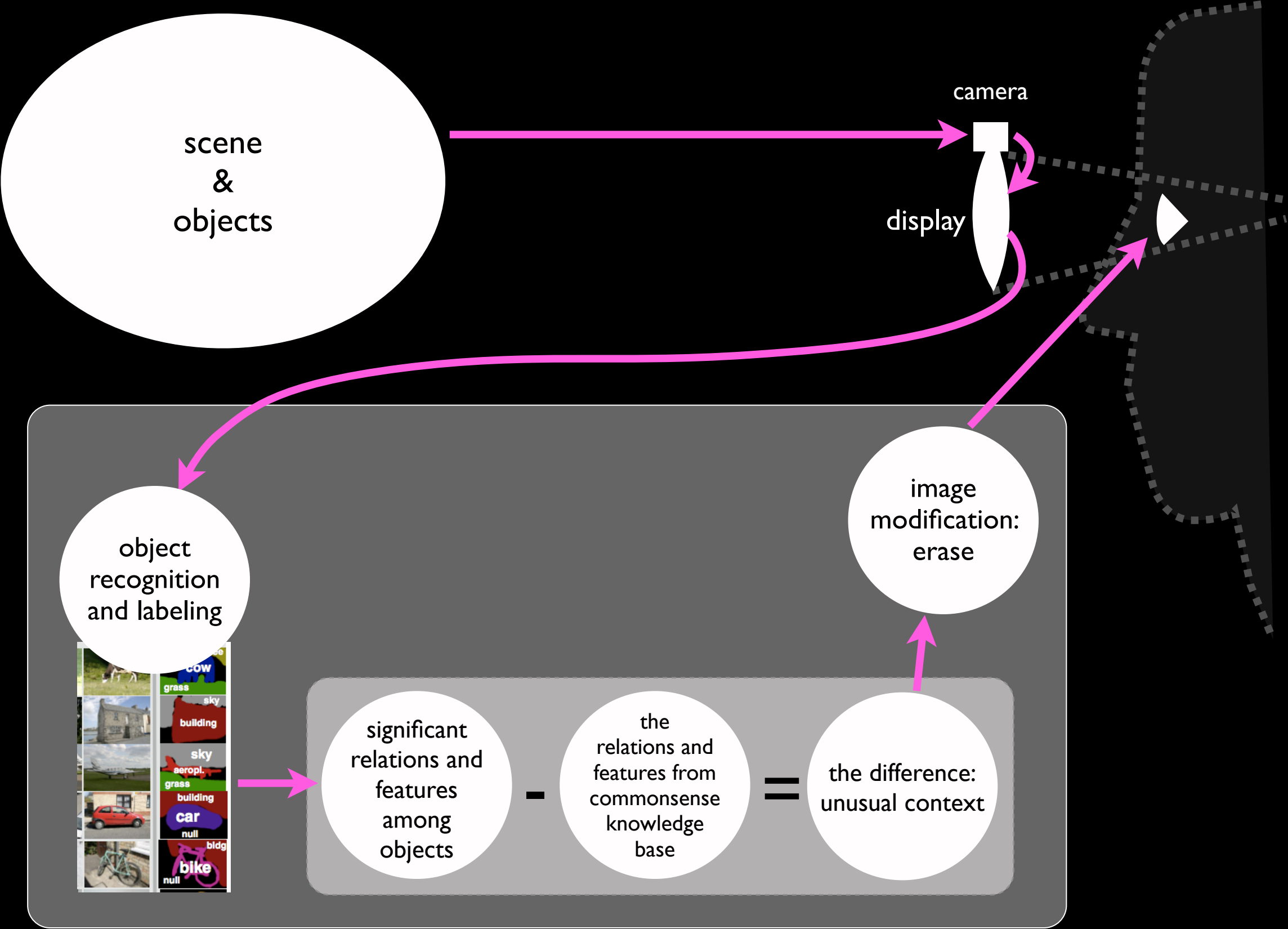
**** the unusual context:** the significant pattern of relations and features, such as spatial relation, part and whole relation, figure, and color, which can be found in the user's visual frame but which cannot be found in the commonsense knowledge reasoning.

2. by transforming the visual perception of unusual objects into more salient form

- the image modification process of the detected objects, which are related to the unusual context
- augmented reality system.

** magnifying, color changing, and erasing

- becomes empty and noticeable
- implies that something extraordinary is there
- increases the curiosity
- encourages to observe the object further to discover the detail and the “why” with the bare eyes.



- the target users: artists and scientists especially who are interested in the occurrences of directly observable scale
- the expected effect: the increasing chance of capturing the unusual visual features within the context
- the assisting keen eyes, the additional resource of creativity.

JK is an illustrator.

One day, he entered into the kitchen to drink some water.

There laid TED he left the other day, and he became happy.

He put on TED with no specific reason and turned to return to his room.

Then he noticed the white blank area in his peripheral vision on the preparation table.

He went closer to the preparation table taking off the TED.

It was a frog.

He wondered why it was there.











can be further applied in the opposite way to empower and celebrate the usual and boring experience, altering the usual environment into extraordinary one

can be further developed into having the social function by adopting the variety of filters for commonsense knowledge, such as general or political preferences. (ex. detecting the dangerous situation such as a baby next to a hot stove)

can be further developed into the auditory realm, accompanied with the speech recognition system.

commonsense knowledge &
commonsense reasoning
based on textual information

+



&

+

