Programs and Behaviors that Can Improve Motorcyclists Conspicuity

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The presentation reviews definitions of conspicuity, including passive and active and summarizes its role in risk reduction for motorcyclists. With a focus on rider choices that reflect a safety attitude, Ochs reviews programs that the Motorcycle Safety Foundation has developed to assist motorcyclists in assessing and improving their hazard perception skills and judgments.

Programs and Behaviors That Can Improve Motorcyclist Conspicuity



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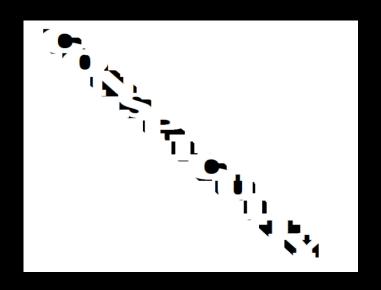
MSF Training Systems

Subtitle

Strategic Conspicuity:

Rider Behaviors Appropriate for Being

Less Than Perfectly Conspicuous



Theme

Conspicuity is a two-way phenomenon: riders and everyone else

If a tree branch falls in the forest but no one hears it, did it make a sound?

If a rider and motorcycle are visible but no one sees them, were they conspicuous?



The problem is not with the limitations on motor control, but with limitations on attention resources and awareness.

Chabris and Simons the invisible gorilla

the invisible gorilla



And Other Ways Our Intuitions Deceive Us

Christopher Chabris and Daniel Simons

Conspicuity

A term to define the condition of:

- Being visible, easy to notice, or obvious
- Ability of an object to draw attention to itself, even if no one is actively searching for it

Is this even possible?

"I didn't see the motorcycle."



2 vehicle, at fault:

MC: 30-70% OVD: 30-70%

http://www.youtube.com/watch?feature=player_embedded&v=gBmE92n5mEl

Rider Strategic Conspicuity

Passive: riding gear and motorcycle

Active: perception and executive functions

Passive

(Requires some action by the rider)

Rider

- Bright clothing
- Reflective clothing
- White or bright helmet
 - Lighting and Reflection
- Contrast
- Hand signals
 - Semi-active

Passive

(Requires some action by the rider)

Motorcycle

- Headlight
 - Modulated
- Tail light
- Brake light
 - Flashing
- Turn signals
- Reflectors
- Extra lighting
- Horn

Active

Rider strategy

- Search-Evaluate-Execute
- Assume not conspicuous
- Assume others are asleep, blind or drunk
- Have a good time-and-space safety margin
- Have at least two escape paths
- Make a good lane choice
- Choose a good lane position
- Be aware of blind spots
- Support development of drivers

Risk Reduction

Physical Skill

4

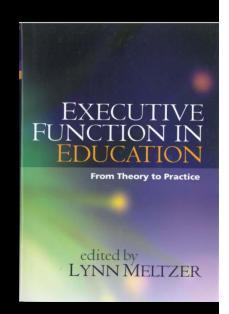
Perception

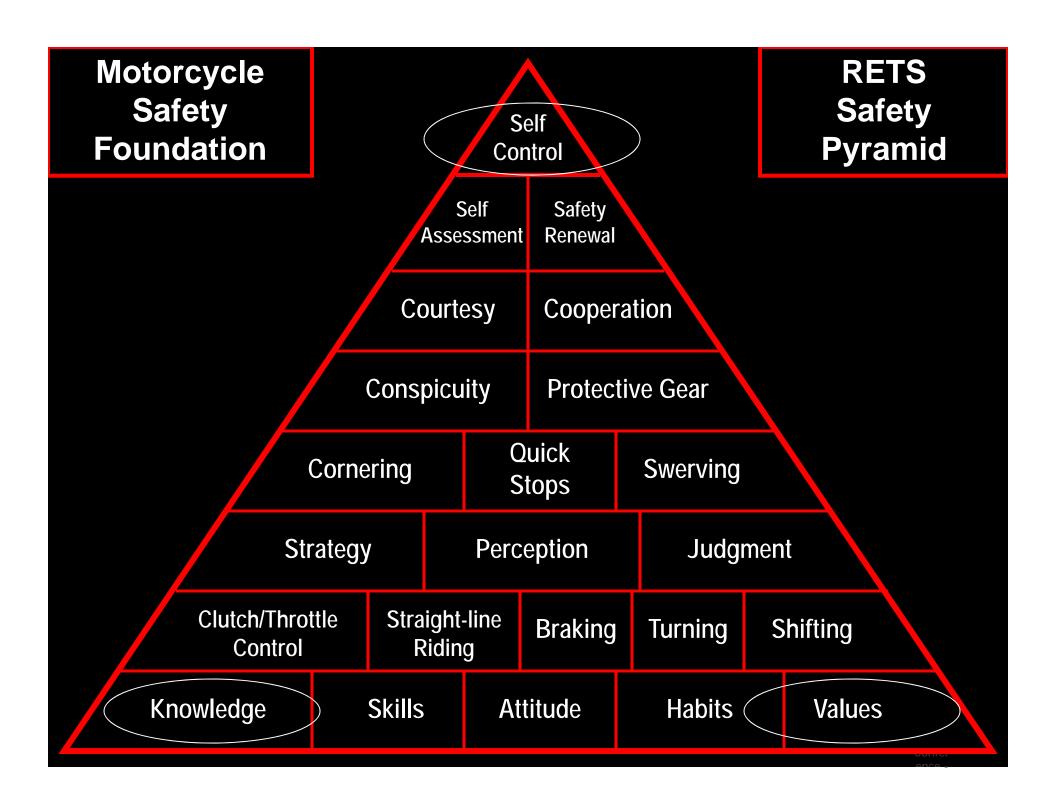
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Executive Functions

Executive Functions

- Regulate goal-oriented behavior
 - Make safety a top-of-mind priority
- Actions in light of
 - Current situational cues
 - Personally relevant values





Serious About Safety?

As a car or truck driver, respond to the following statements.

1.	I signal for turns and lane changes.	Yes	Sometimes	No
2.	I stop completely at stop signs.	Yes	Sometimes	No
3.	I stop completely before turning right on red.	Yes	Sometimes	No
4.	I make decisions based on safety.	Yes	Sometimes	No
5.	Others consider me a courteous driver.	Yes	Sometimes	No
6.	I turn my head to check blind spots when changing lanes.	Yes	Sometimes	No
7.	I buckle up.	Yes	Sometimes	No
8.	I do honk at bad drivers.	Yes	Sometimes	No
9.	I use my cell phone to talk or text.	Yes	Sometimes	No
10.	I need to brake hard or swerve when driving normally.	Yes	Sometimes	No
11.	I am in a hurry when I drive.	Yes	Sometimes	No
12.	My friends crash and get tickets.	Yes	Sometimes	No

Discussion point:

Anything but a *Yes* on 1-7 and a *No* on 8-12 may indicate a less than ideal emotional commitment to safety.

Agree or disagree? Why?

VISUAL

Acuity Gaze

COGNITIVE

Perception **Executive Functions**

MOTOR SKILL

Precision Smoothness

Search

Evaluate

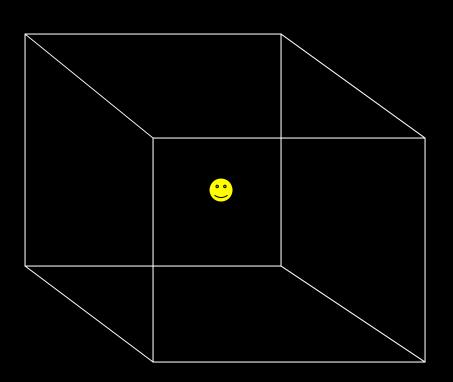
Execute

S.E.E.

What do you see?

Front lower right surface?

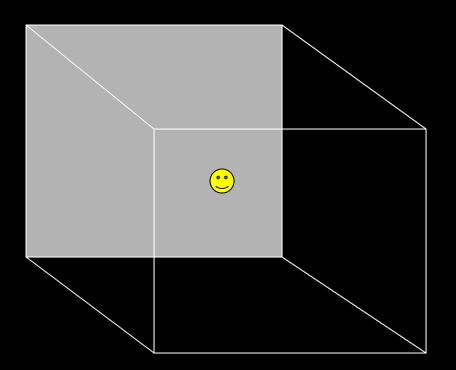
Back upper left surface?



Front upper left surface?

Back lower right surface?

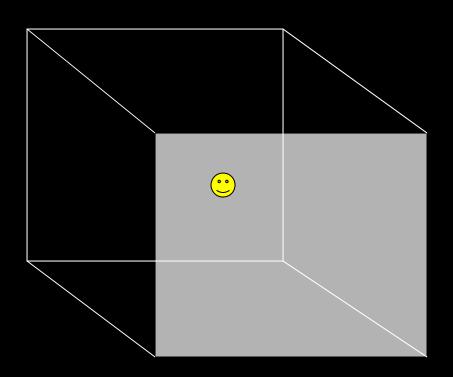
Front lower right surface?



Back lower right surface?

Back upper left surface?

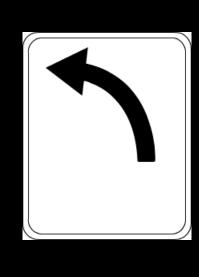
Front upper left surface?



Sign Perception

One U.S. Sign

(Two examples)



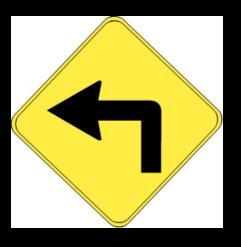


Left Turn Only









Sharp Left Turn

Sets of 2 U.S. Signs

(Two examples)

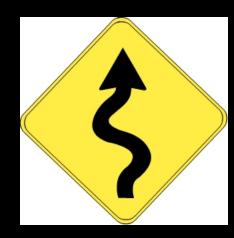






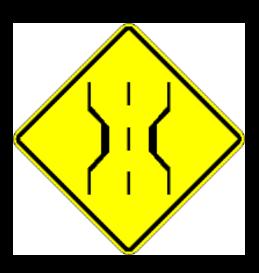
No U-Turn





Multiple Curves

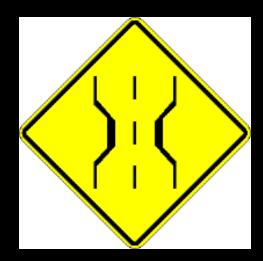




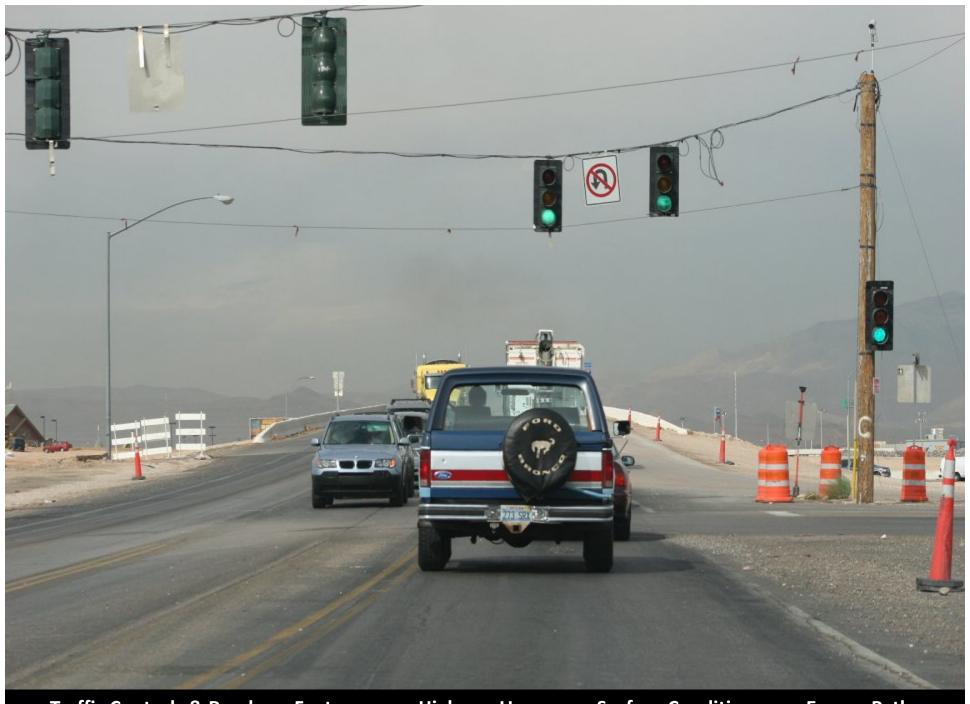


Sharp Right Turn





Narrow Bridge

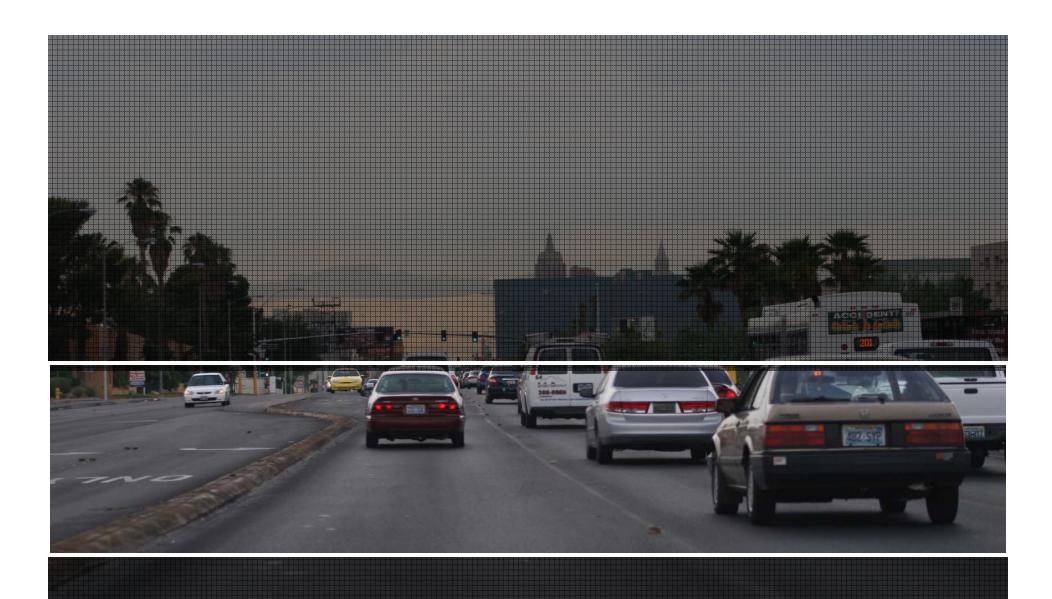


You are traveling on a U.S. roadway and observe this...



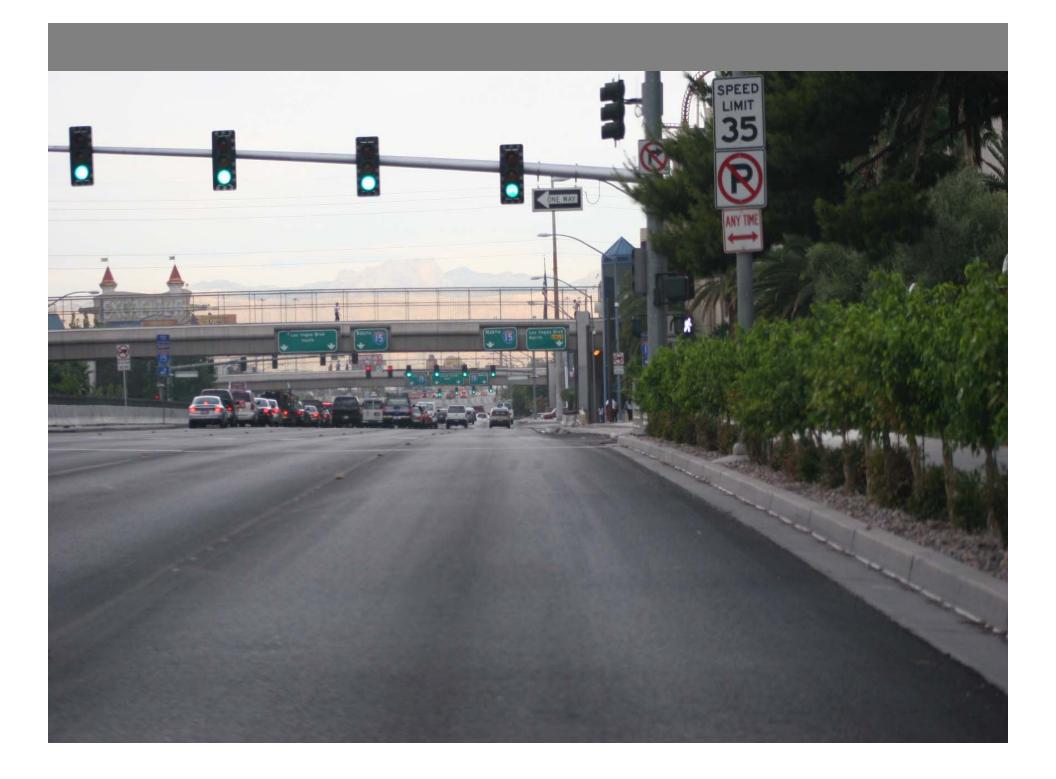




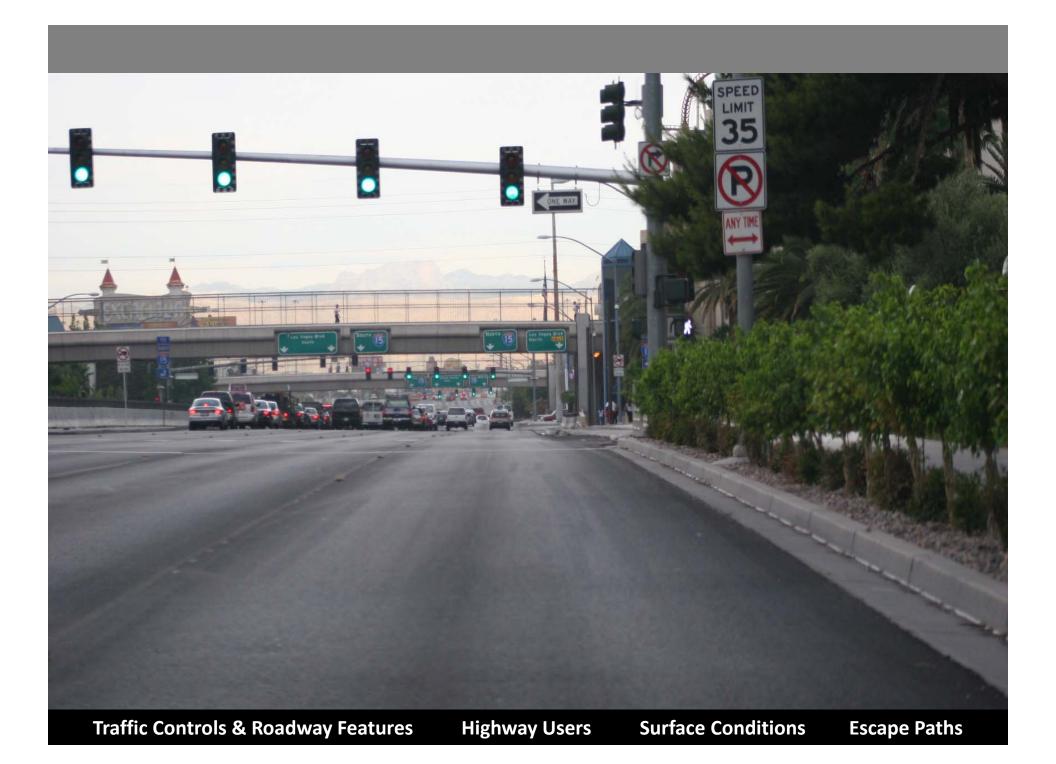


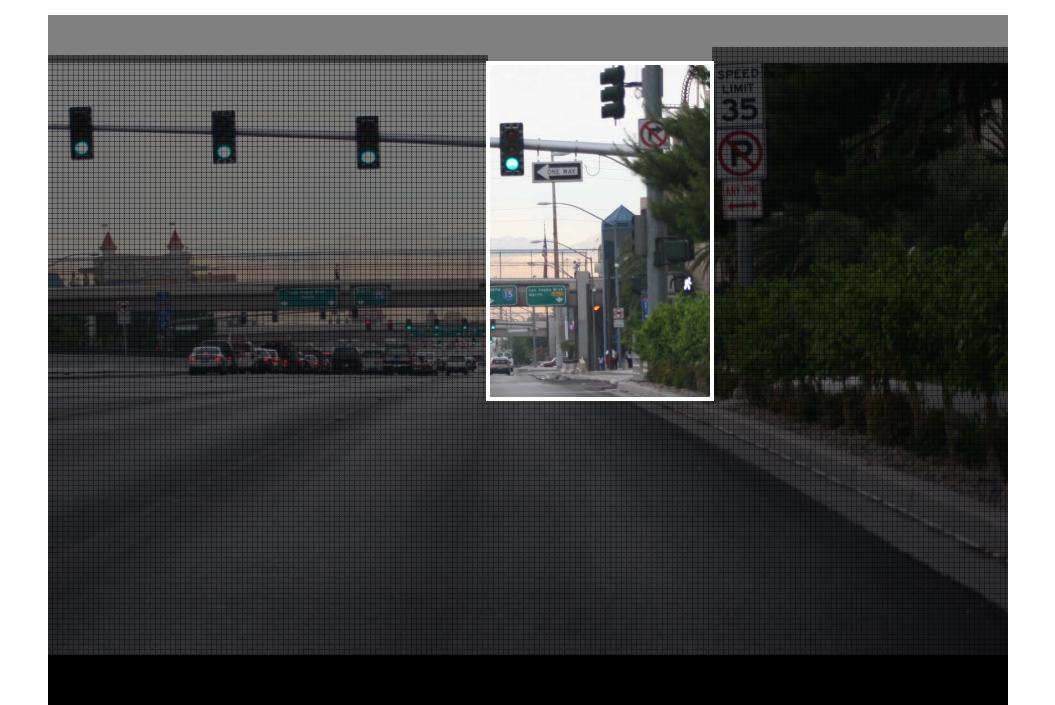
Another Example

You are traveling on a U.S. roadway and observe this...









Ponder Point

One must have safety as a priority to effectively use the speed of the eyes and mind.

Street Smart – Rider Perception Program





MSF website: www.msf-usa.org





Thank You



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