

iridescence_

QUESTION_Is something that is monolithic can also be versatile?

ANSWER_A monolithic also can be perceived as versatile according to the visual experience of the observer.

QUESTION_How to make concrete perceived versatile?

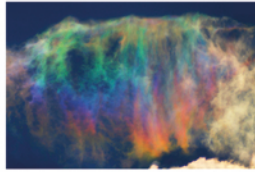
iridescence_the property of certain surfaces which appear to change colour as the **angle of view** changes.

_is an **optical phenomenon** of surfaces in which hue changes in correspondence with the angle from which a surface is viewed.

_is caused by multiple reflections from **multi-layered, semi-transparent surfaces** in which phase shift and interference of the reflections modulates the incident light.



The iridescent inside surface of a red abalone shell



The iridescent cloud



The iridescent on the rock pigeon's neck. Colour changes with angles of the sun, observer and the pigeon.

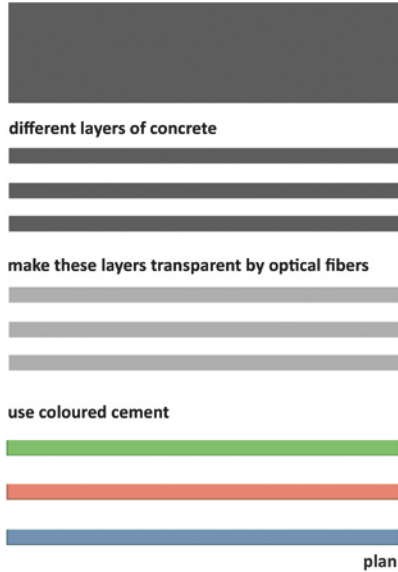


multi-layered structure from metamorphic stones

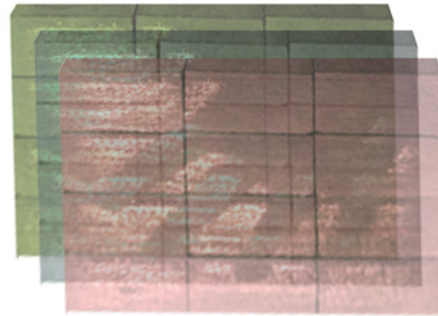


sections in between layers for quartz as another metamorphic stone

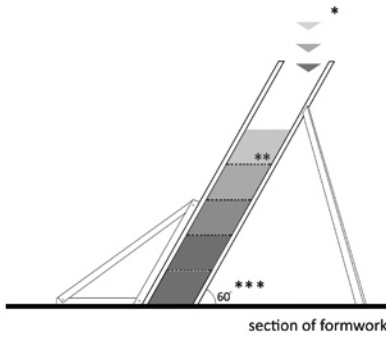
a monolithic block of concrete



the degree of its versatility increases according to the visual perception



Even if something is made of different layers, it can be perceived as monolithic in 3th dimension



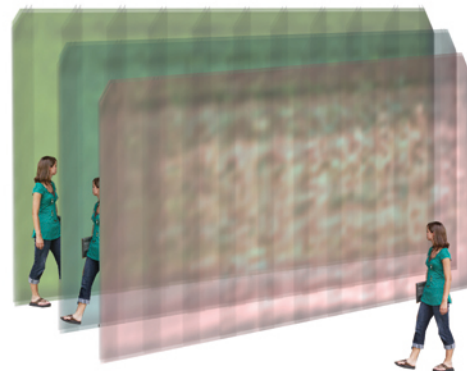
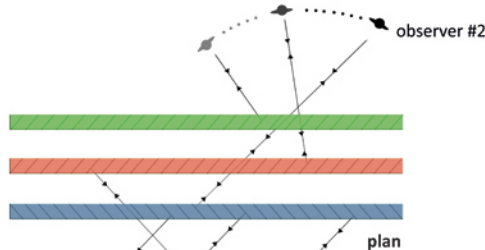
* controlled pouring of transparent concrete, one row for once half-time set for row and again next pouring.

** sections in between two rows create non-transparent lines which orient iridescence with angle of observer and the sun.

*** different formwork angles/ diversity



looking across to the first layer has a vision of only its own color. no 3 dimensional perception. only 2 dimensional monolithic geometry of first layer



by walking into layers, different color intergrations appear. According to standing point of observers.
iridescence by multi-layered structure and semi-transparent surfaces

#1 sees blue and red semi-transparent mixture

#2 sees green, red and blue semi-transparent mixture more 3 dimensional visual experience. More versatile but still monolithic physically. then walks and explores new angles to new colours.

#3 passes by and always has a vision of only first layer