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Dynamic Electrochromic Facades

Tim Davis
AR Design Inc.

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Course Description

Dynamic electrochromic façades change tint between clear and dark on demand, providing unprecedented control over the amount of light and heat that enter a building. This dynamic control results in:

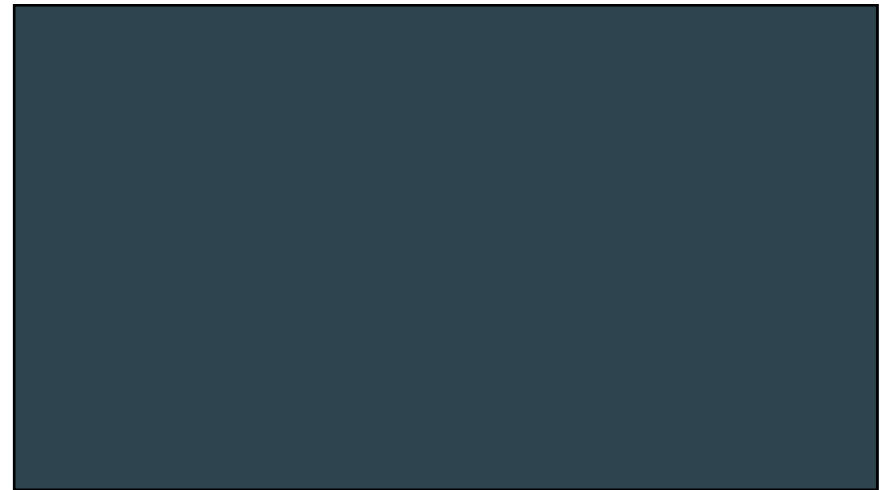
- reduced energy consumption
- reduced peak load & HVAC equipment downsizing
- elimination of blinds and shades providing unobstructed views
- increase in natural daylight
- improved occupant comfort as well as productivity.

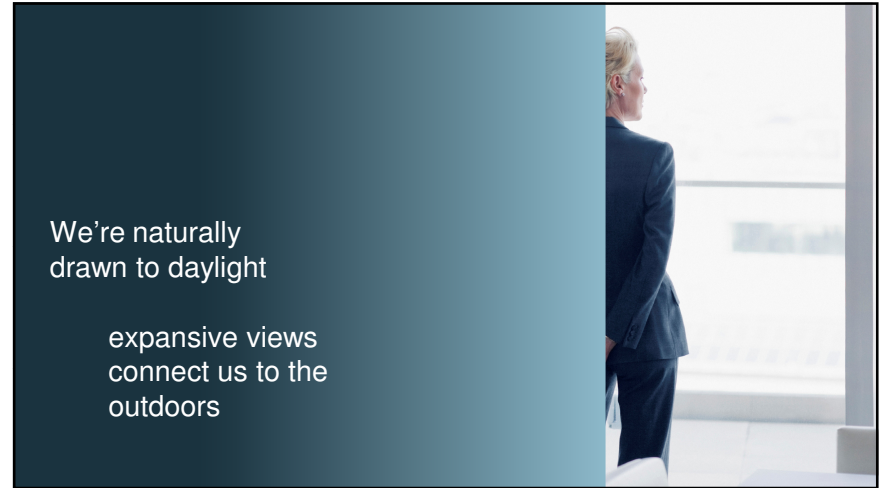
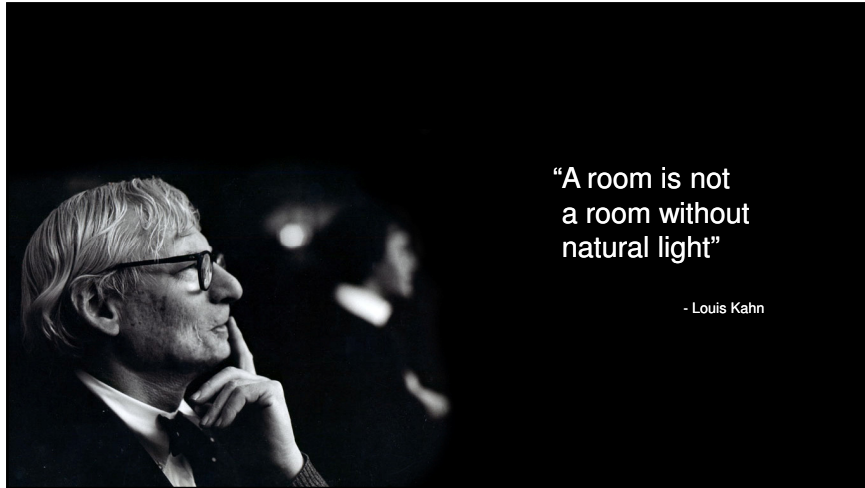
At the end of this course, participants will be able to understand the impact of dynamic electrochromic glazing on the design of façades, evaluate the benefits of an electrochromic glazing solution, determine when and where electrochromic glazing makes sense and analyze how electrochromic glazing solutions can be implemented in buildings.

Learning Objectives

At the end of this program participants will be able to:

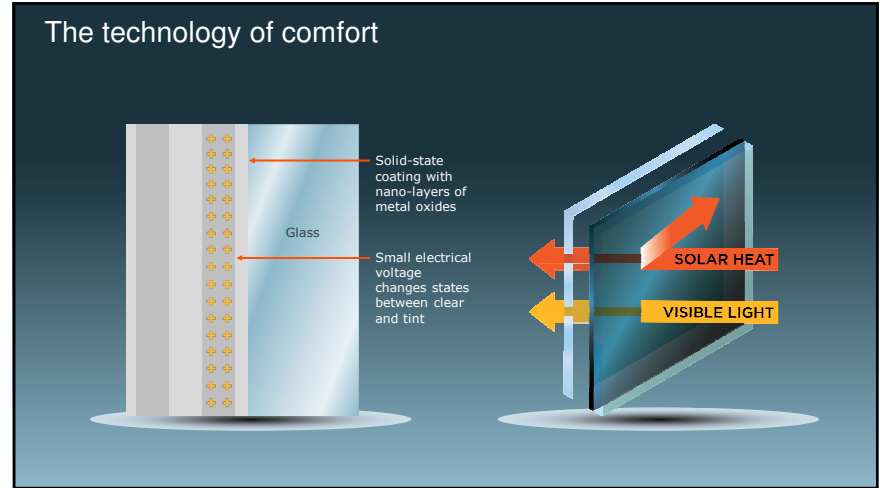
1. Understand the impact of dynamic electrochromic glazing on the design of façades
2. Evaluate the benefits of an dynamic electrochromic façade solution
3. Determine when and where dynamic electrochromic glazing makes sense
4. Analyze how dynamic electrochromic glazing solutions can be implemented in buildings





Seamlessly transitions through four states

Tint 1	Tint 2	Tint 3	Tint 4
Visual Light Transmission: 60%	Visual Light Transmission: 30%	Visual Light Transmission: 10%	Visual Light Transmission: 1%
Solar Heat Gain Coefficient: .46	Solar Heat Gain Coefficient: .29	Solar Heat Gain Coefficient: .16	Solar Heat Gain Coefficient: .09



Long-term durability by design

- Durability**
ASTM E-2141 Durability of Absorptive Electrochromic Coatings
- Heat treatment**
SGCC (ANSI Z97.1, CPSC 16 CFR 1201) Heat treatment / Impact resistance
- Impact resistance**
SGCC (ANSI Z97.1, CPSC 16 CFR 1201) Heat treatment / Impact resistance
- Seal integrity**
IGCC/IGMA (ASTM E-2190) IGU seal integrity, gas retention and factory quality control

100k cycles of testing

>50yr lifetime

Predictive Intelligence

Anticipates the sun's movement

Monitors actual conditions

Glass is always in the ideal state for comfort and energy

Tint 3

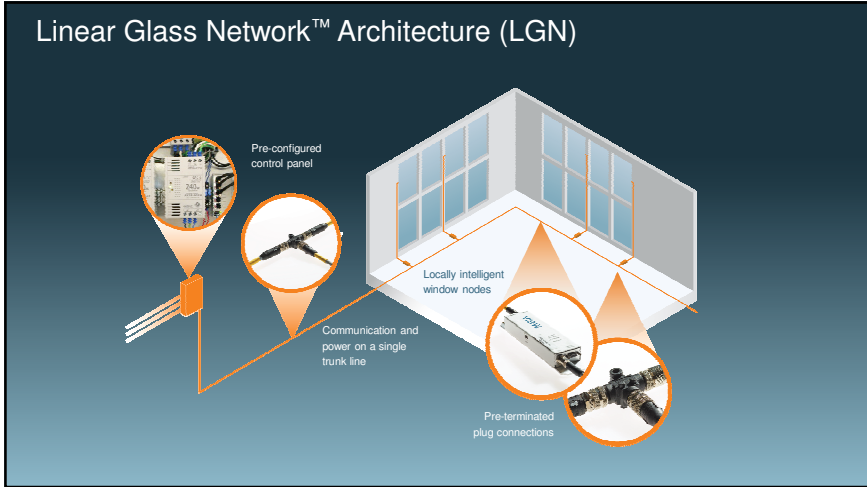
Tint 2

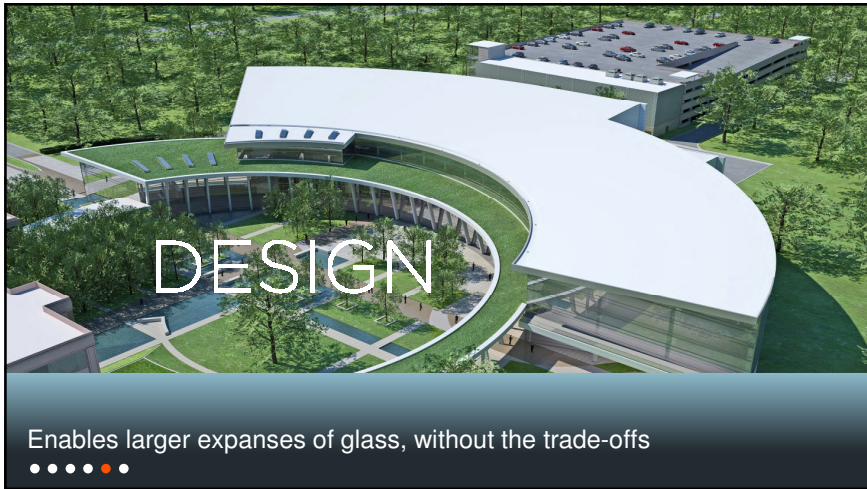
02:00 pm Time of Day

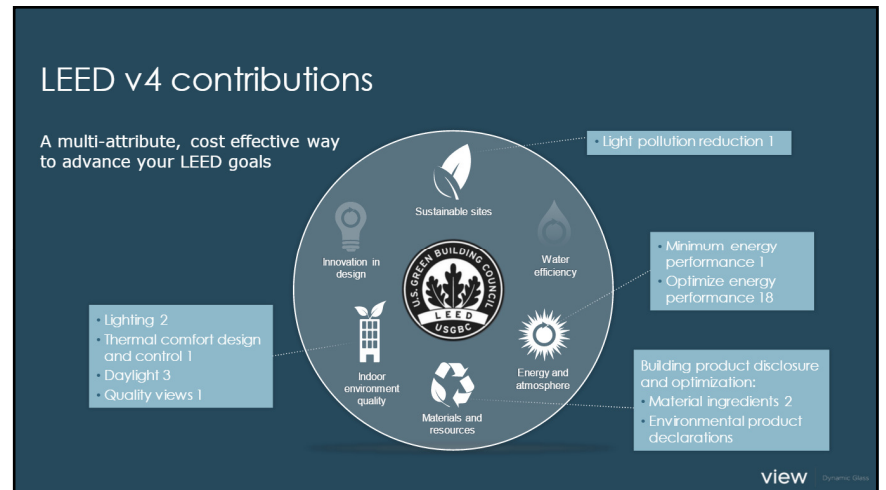
45° Solar Penetration

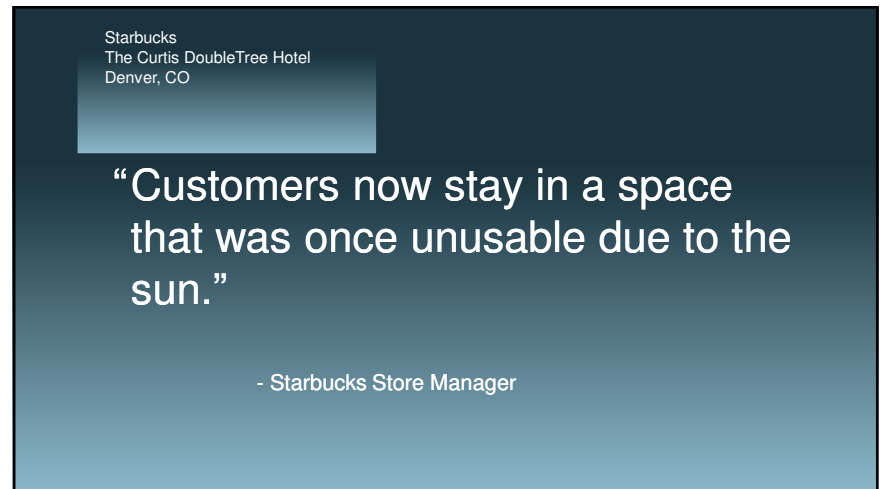
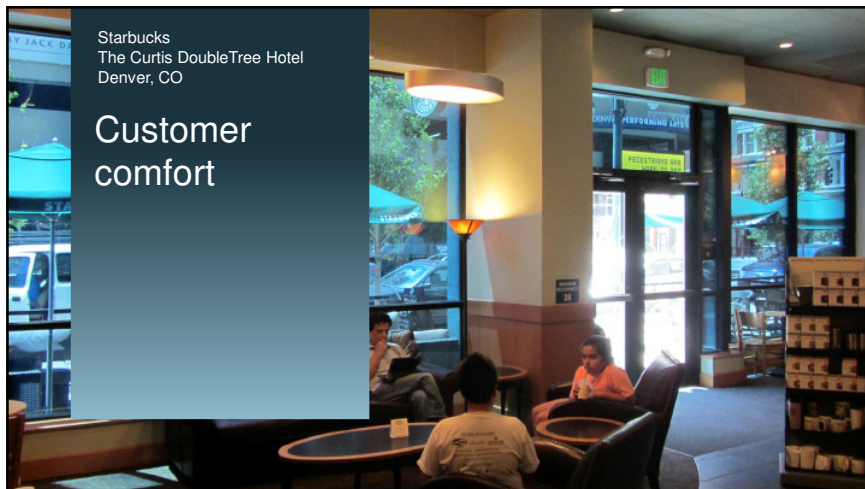
<75 watt Radiant Energy

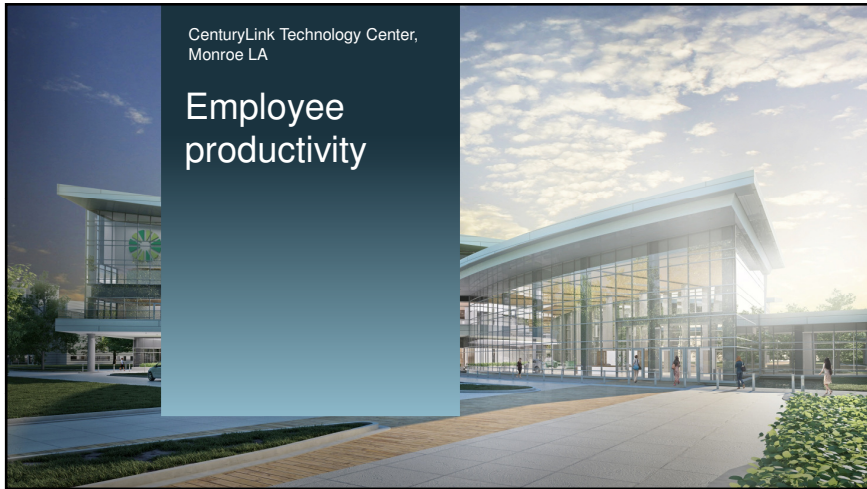
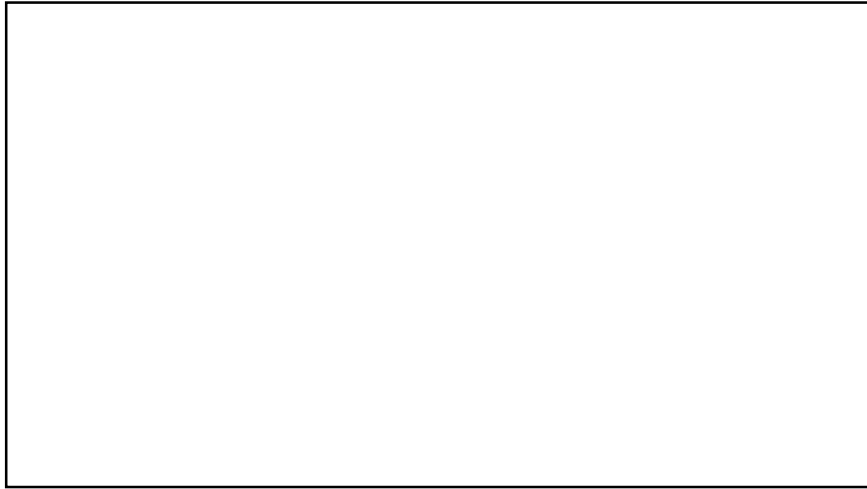
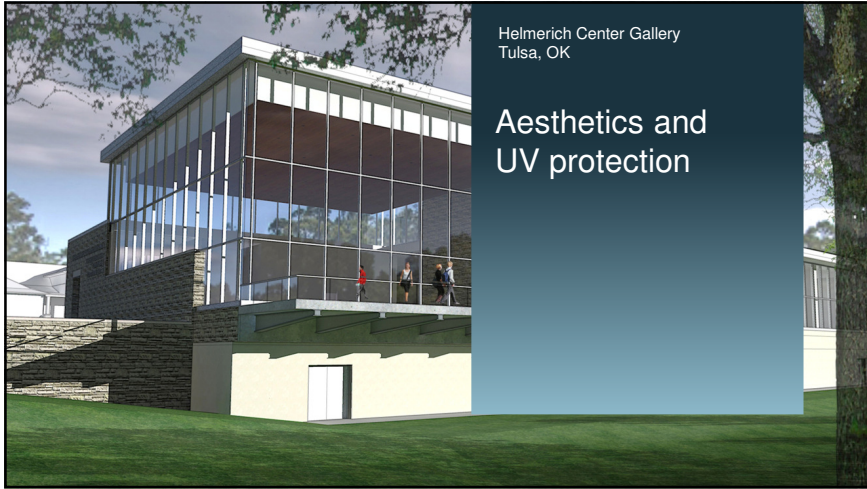
Cloudy Environment

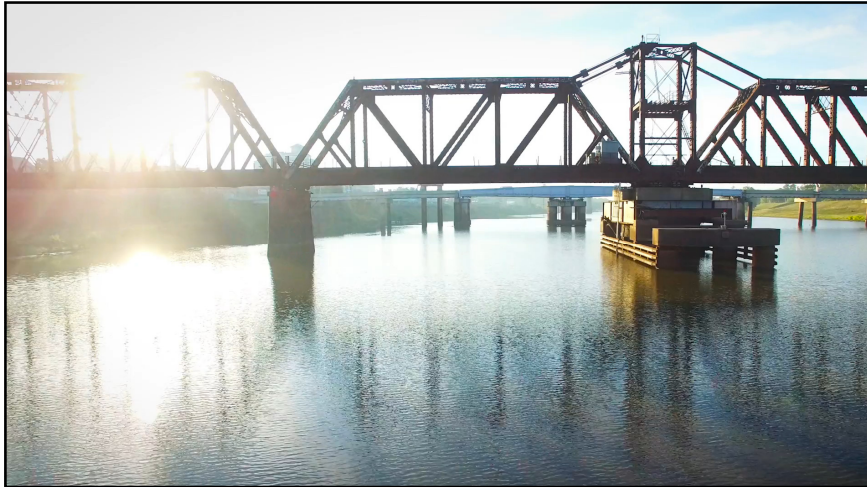












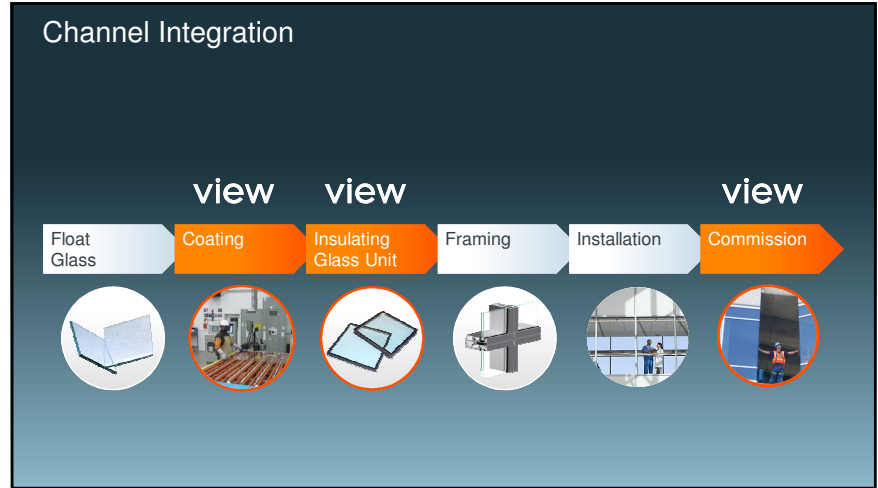
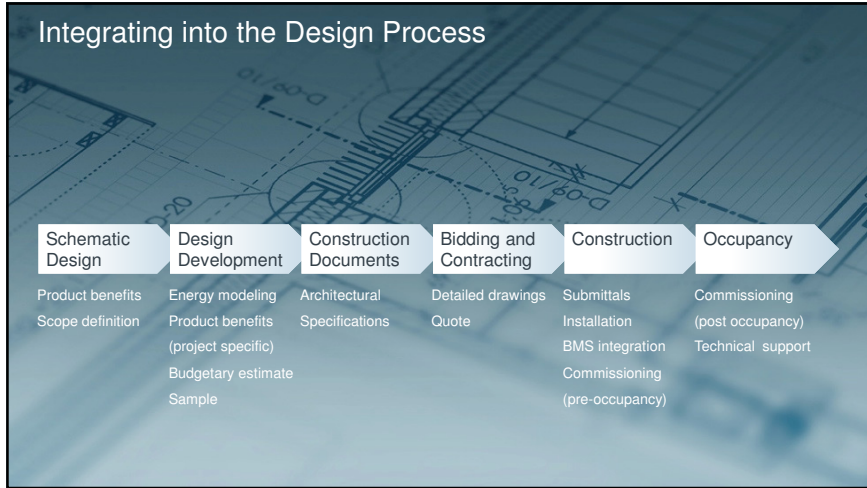
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Colorado State University
Fort Collins, Colorado, USA

Imagine buildings that:

- Elevate occupant experience
- Provide better outcomes
- Enhance business results

Design and Channel Integration

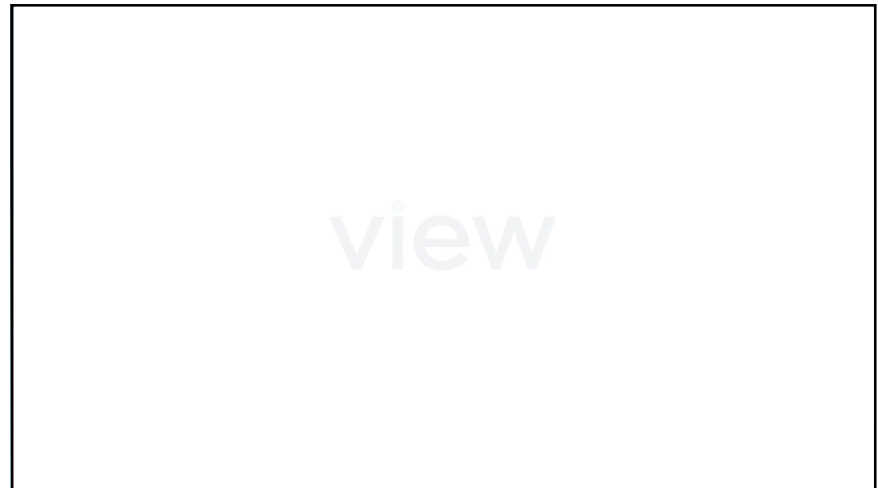


Momentum

200+ projects installed

100+ more in progress

Workplace Healthcare Education Hospitality





Introduction

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