

URBAN NATURE Bringing out the best in us

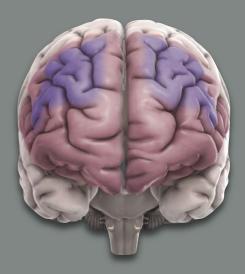
William Sullivan, University of Illinois

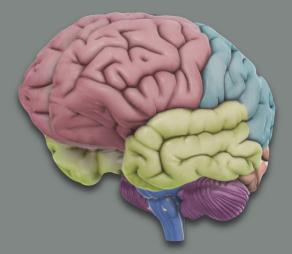


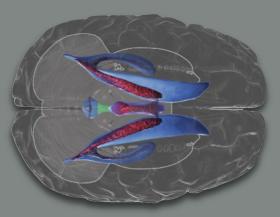








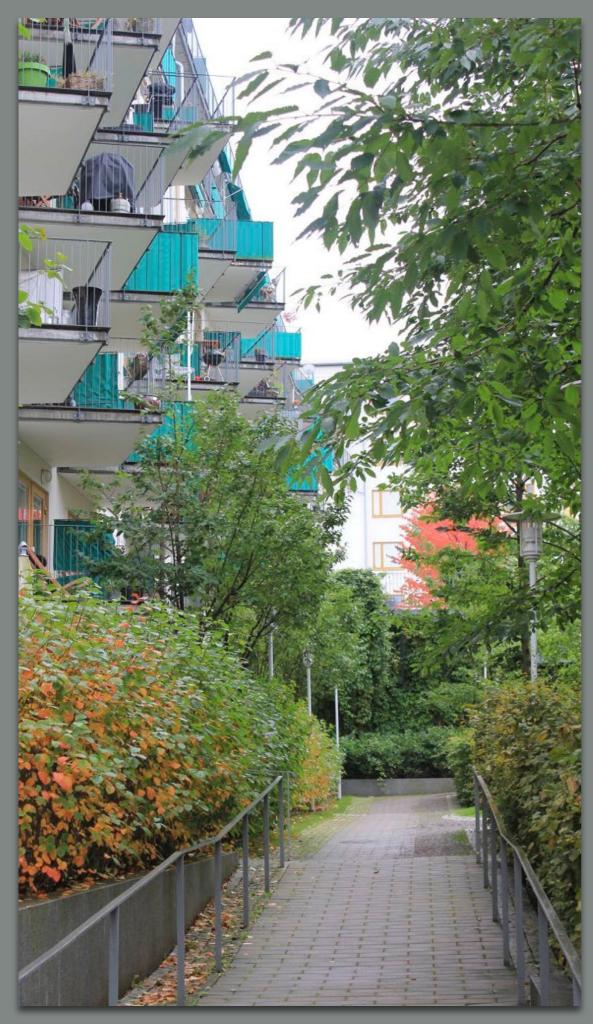






Harney Trail, City of Omaha





THIS MORNING

Attention

Green Landscapes

PAYING ATTENTION

Matters for:

- Learning
- Problem solving
- Planning & carrying out tasks
- Self monitoring & regulation
- Effective social functioning

ATTENTION FATIGUES

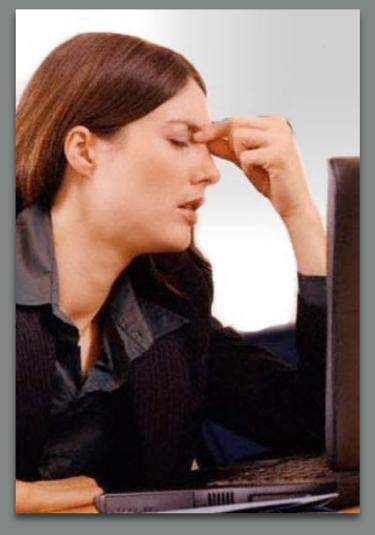


COSTS OF MENTAL FATIGUE Inattentiveness









COSTS OF MENTAL FATIGUE



COSTS OF MENTAL FATIGUE



GREEN LANDSCAPES MAY ACCELERATE RECOVERY FROM MENTAL FATIGUE





Predictions

More urban green leads to:

- Better self discipline
- Less domestic violence
- Better academic performance
- Better in high school

An interview study

- 169 care-giver & child pairs (7-12 years old)
- Recruited door-to-door by interviewers
- Administered standardized tests of selfdiscipline to the children
- Compared answers from people living with and without nearby nature

Why might access to green spaces impact self-discipline? Is it because they:

A. Tire children out so they get into less trouble?B. Distract children in a natural way?C. Reduce impulsivity and improve concentration?D. Put that naughty part of the brain at ease?





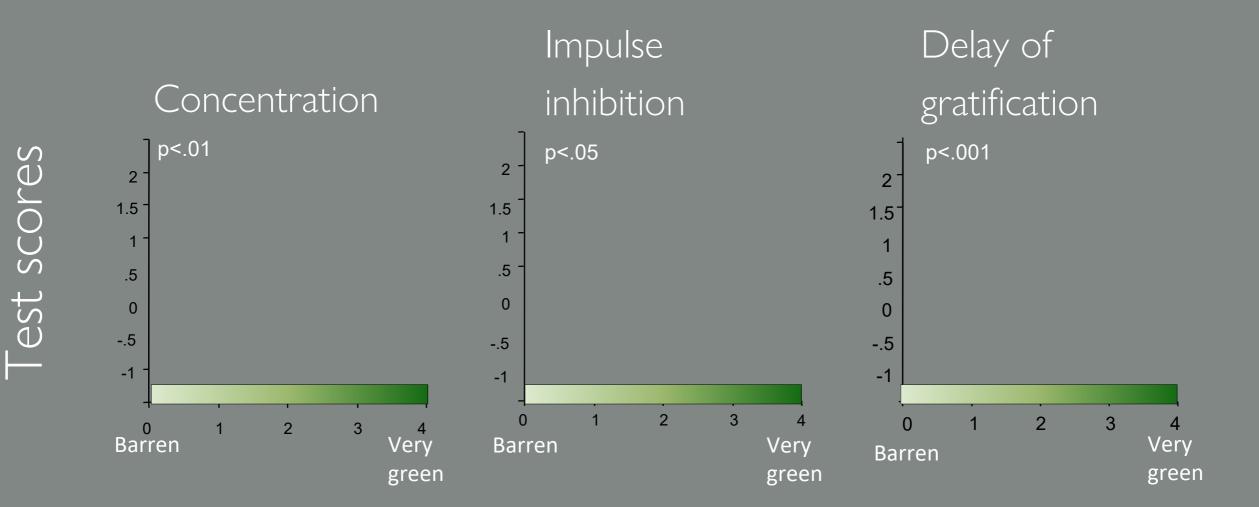


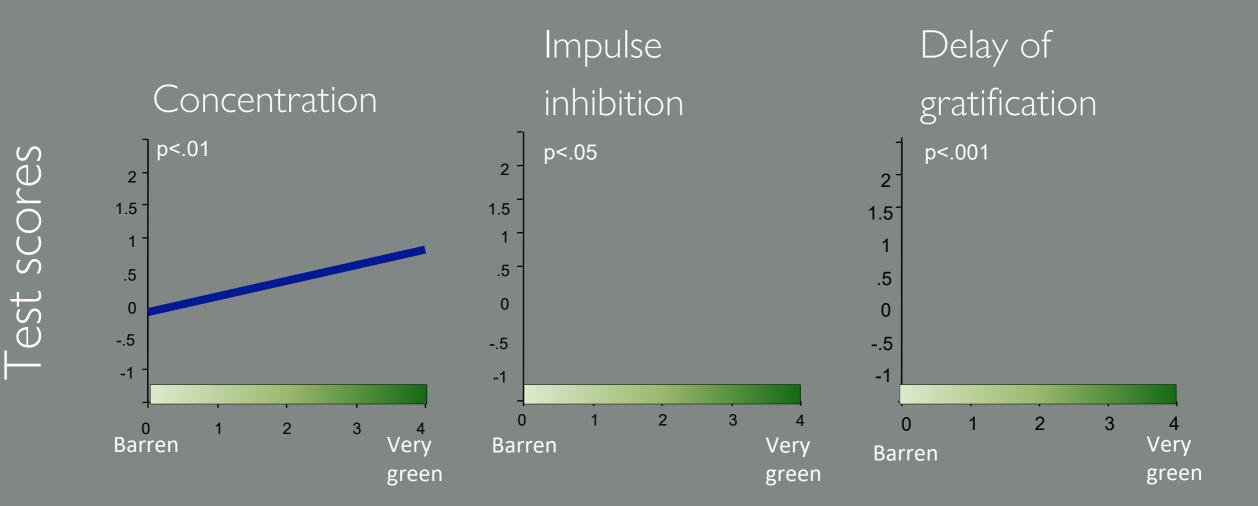


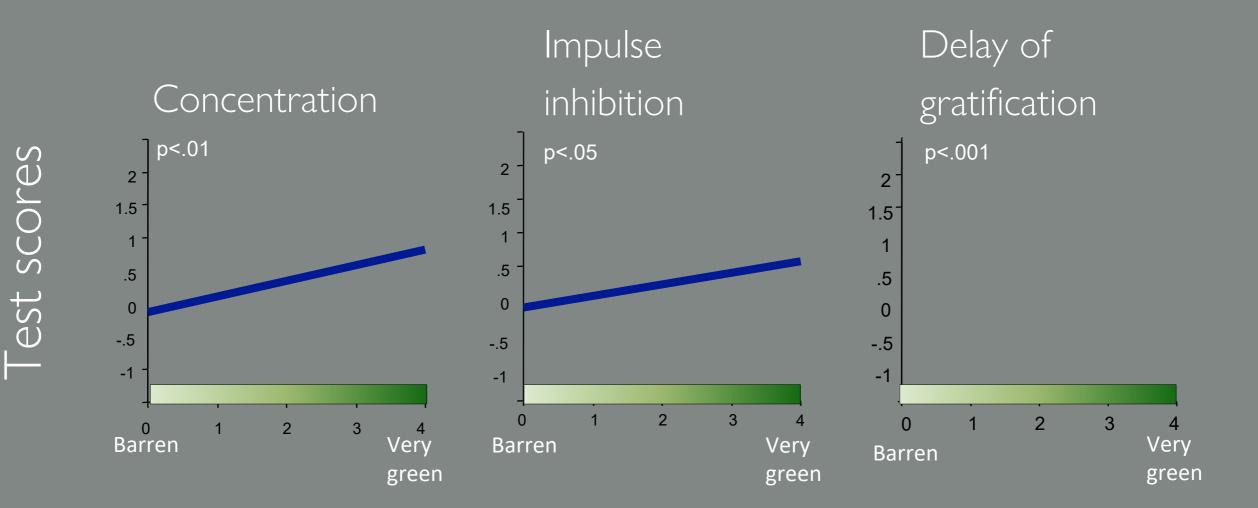
Concentration

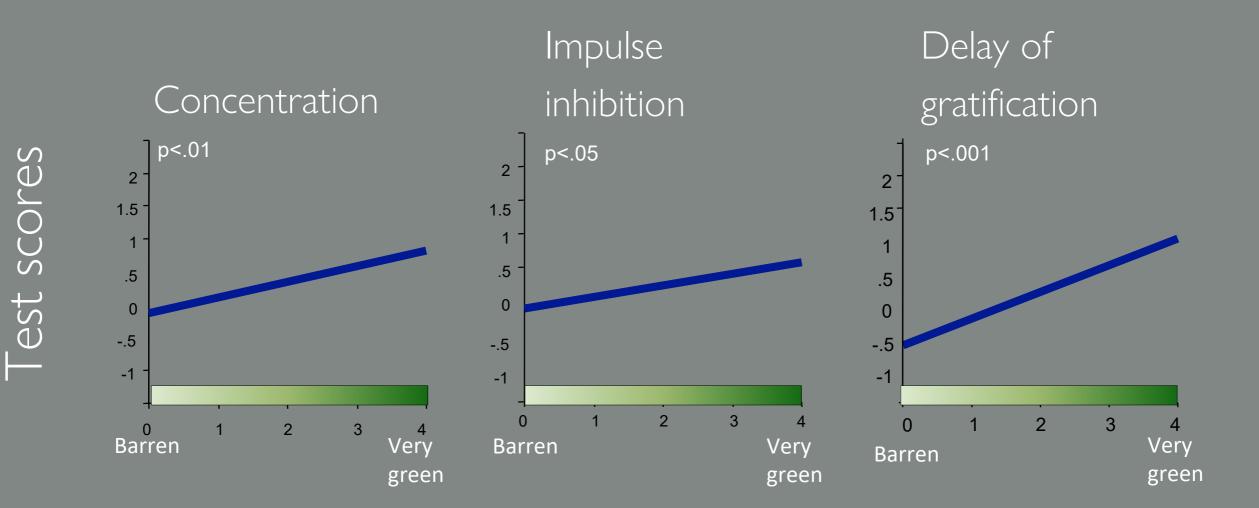
Impulse inhibition

Delay of gratification





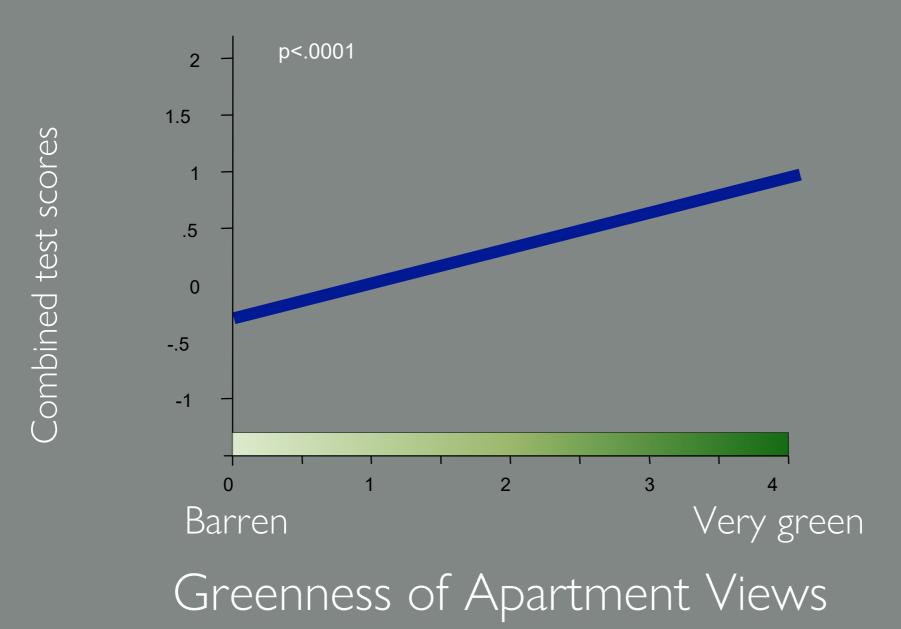




Self-discipline increases as greenness increases



Self-discipline increases as greenness increases



DOMESTIC VIOLENCE



An interview study

- 145 residents
- Compared answers from people living with and without nearby nature

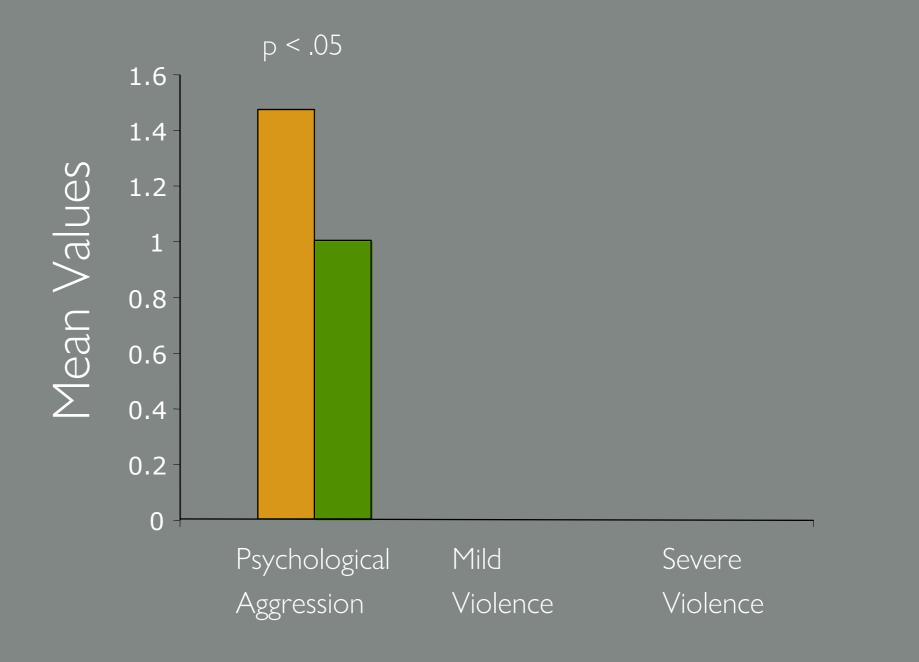


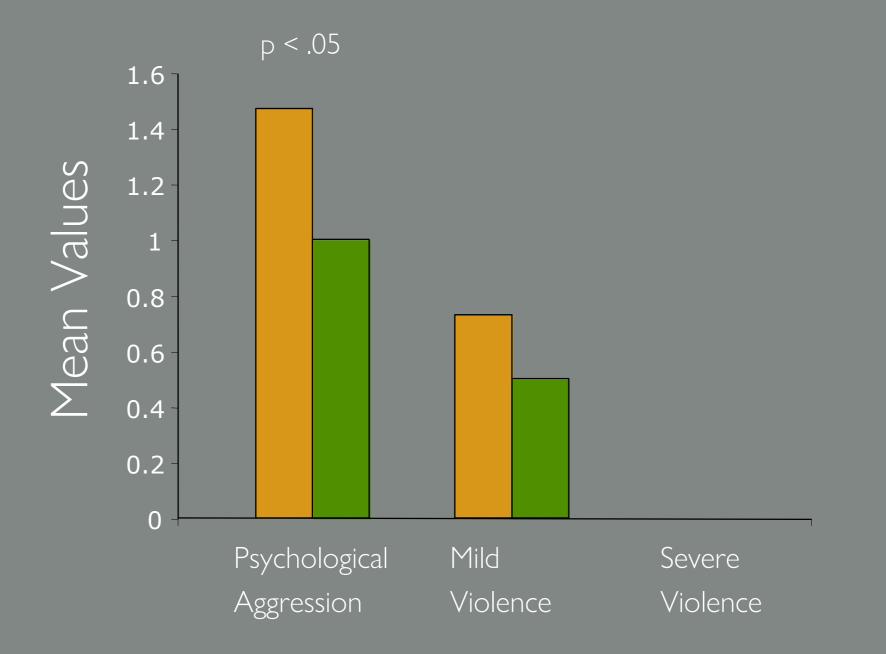


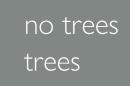


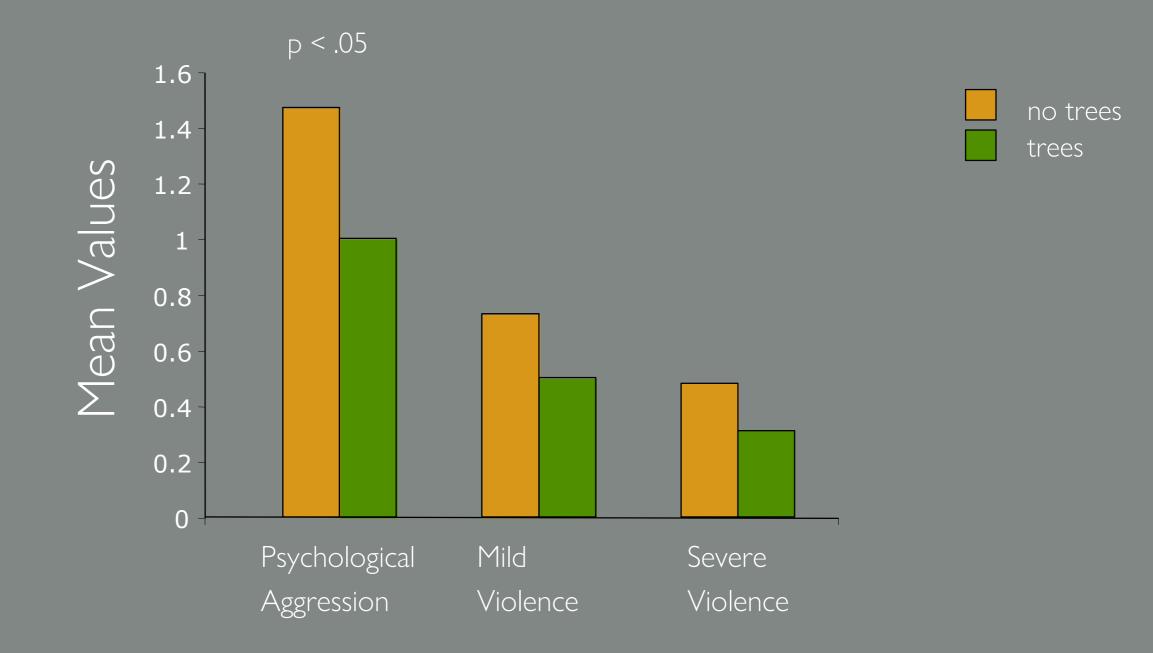
no trees

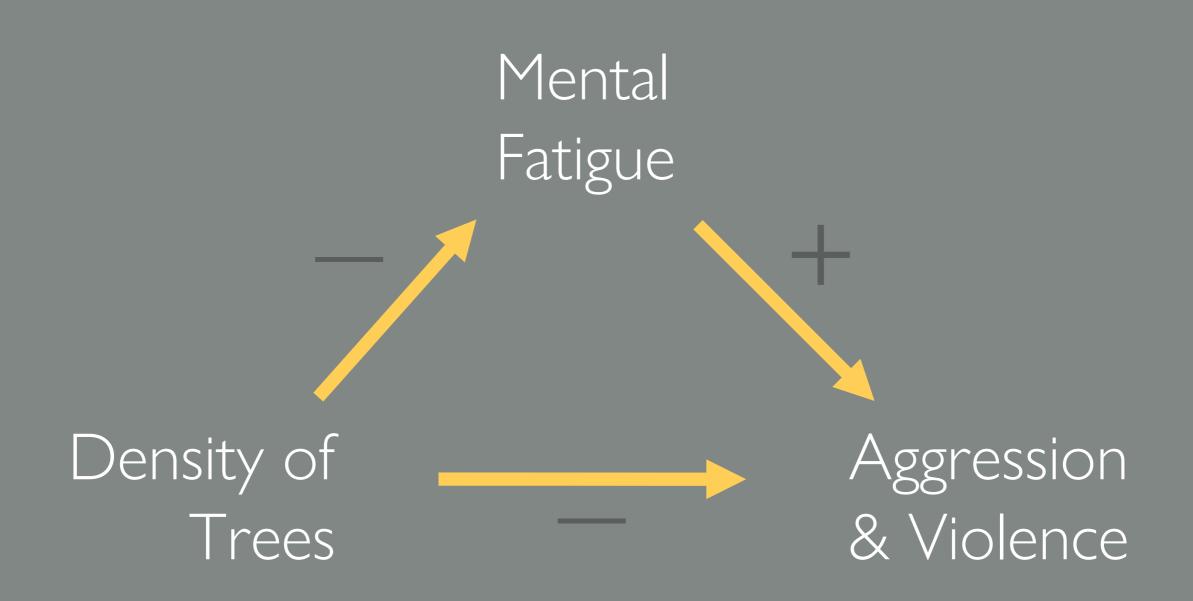
trees

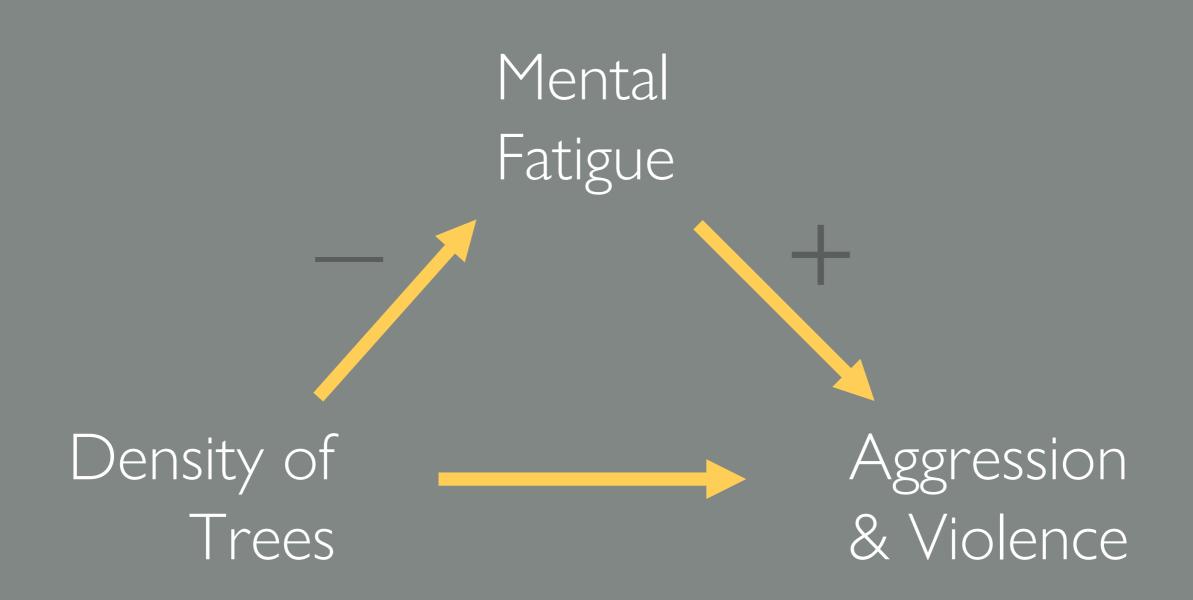












Do you have to be *in* a green space for it to impact you?

A. Yes

B. Yes, but you have to spend enough time in itC. Not really, you can benefit from a view of green spaceD. No, just knowing it is there is enough

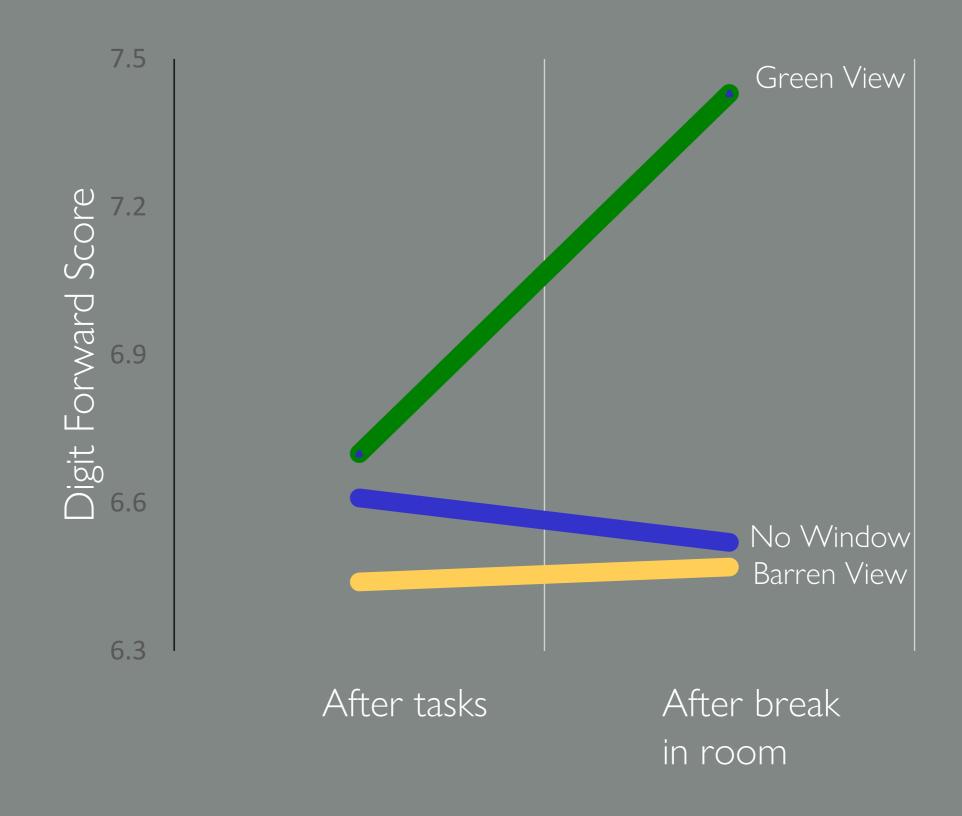
TREES & TEST SCORES



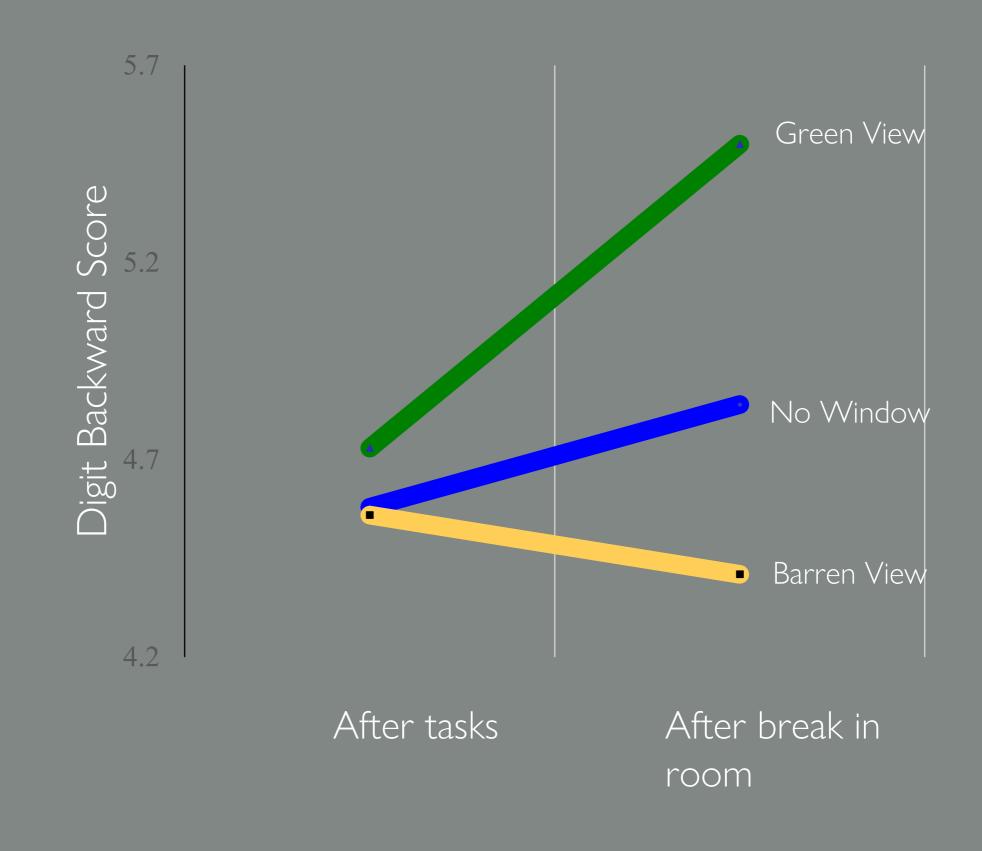




EFFECT OF WINDOW VIEW ON ATTENTION



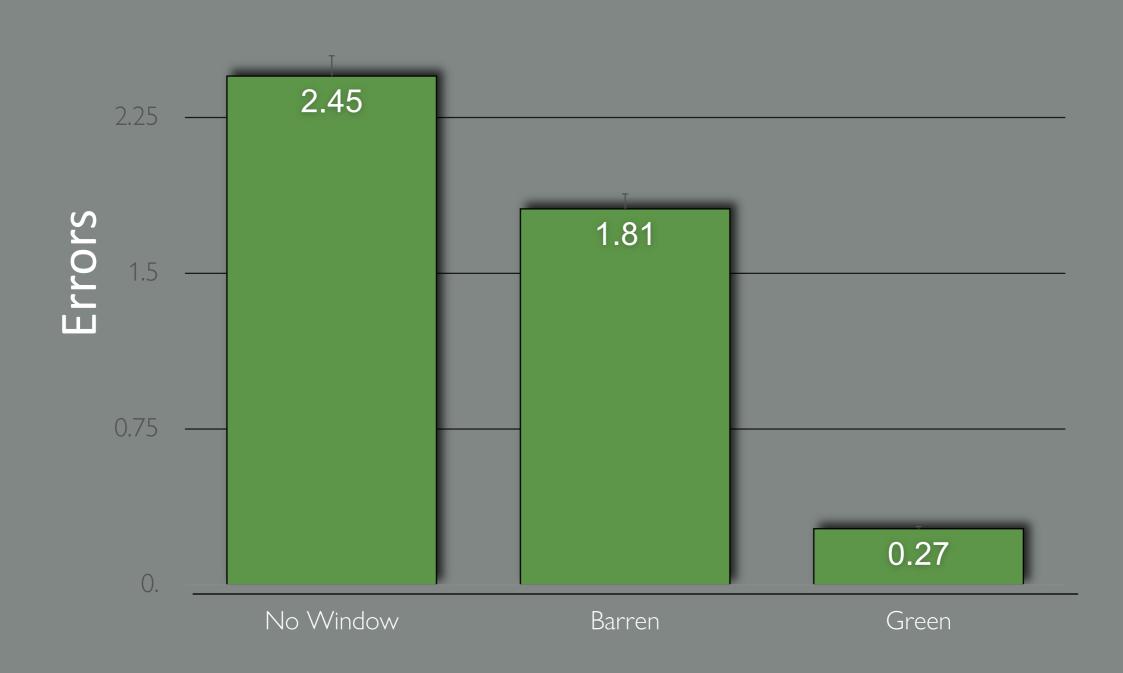
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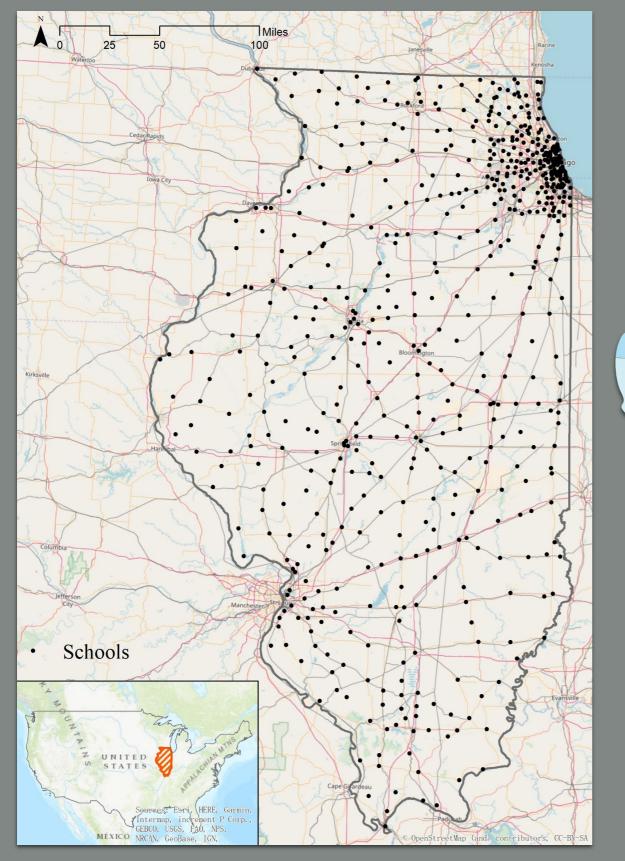


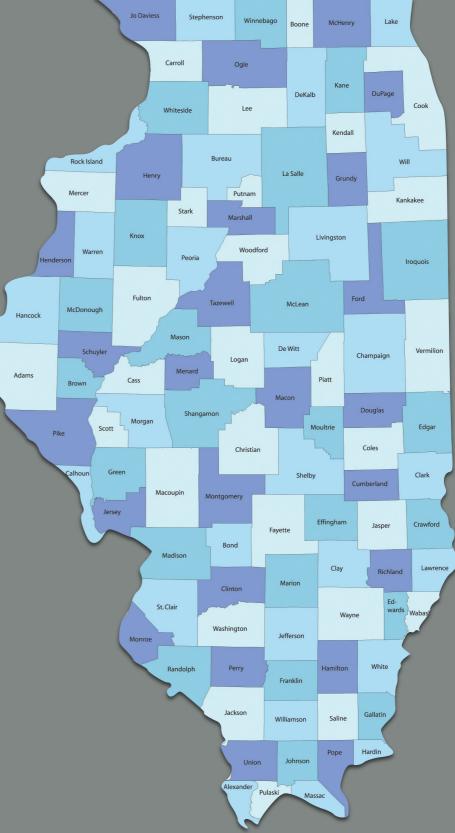
EFFECT OF WINDOW VIEW ON ATTENTION

Fail Count in Color Stroop Test

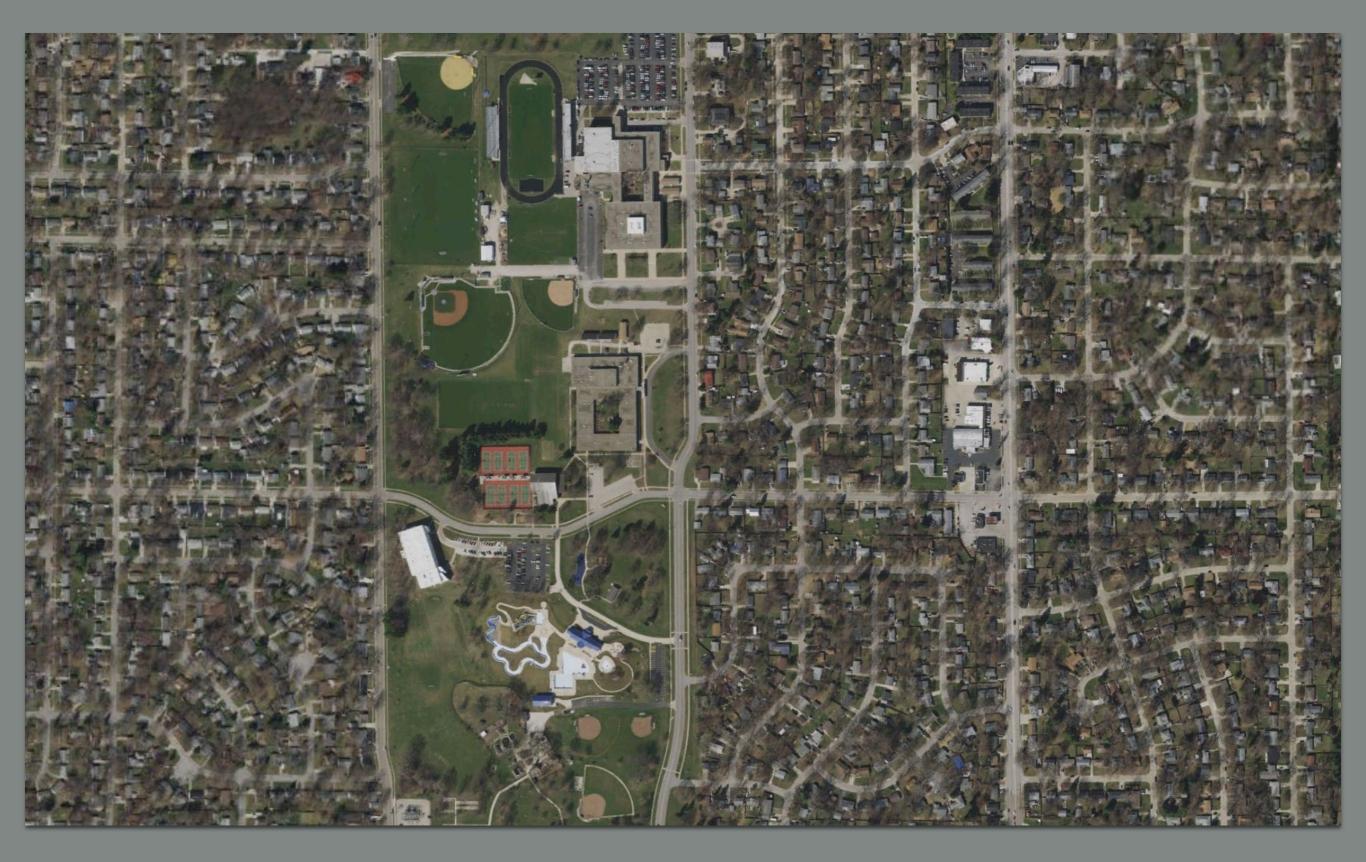
3.



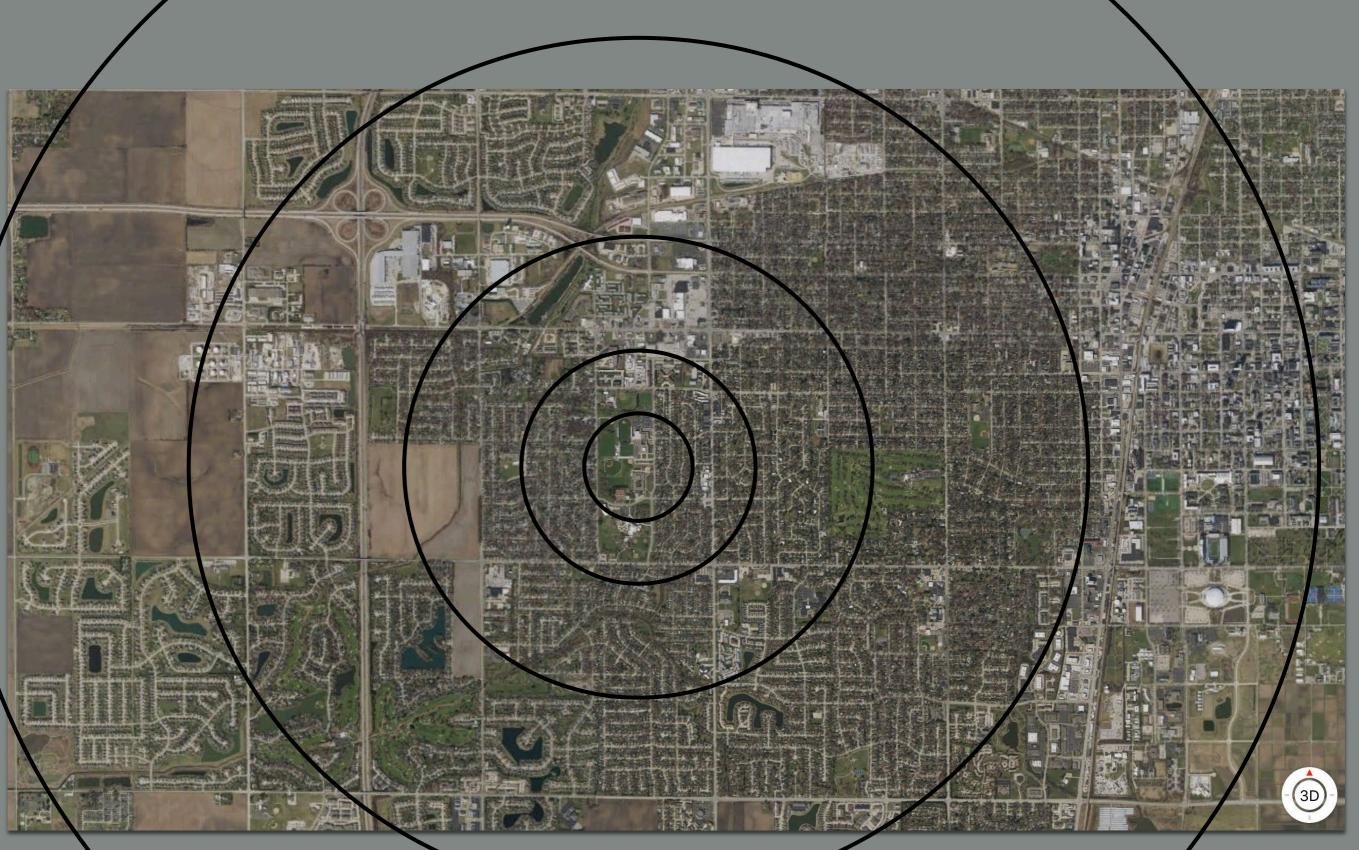




624 High Schools

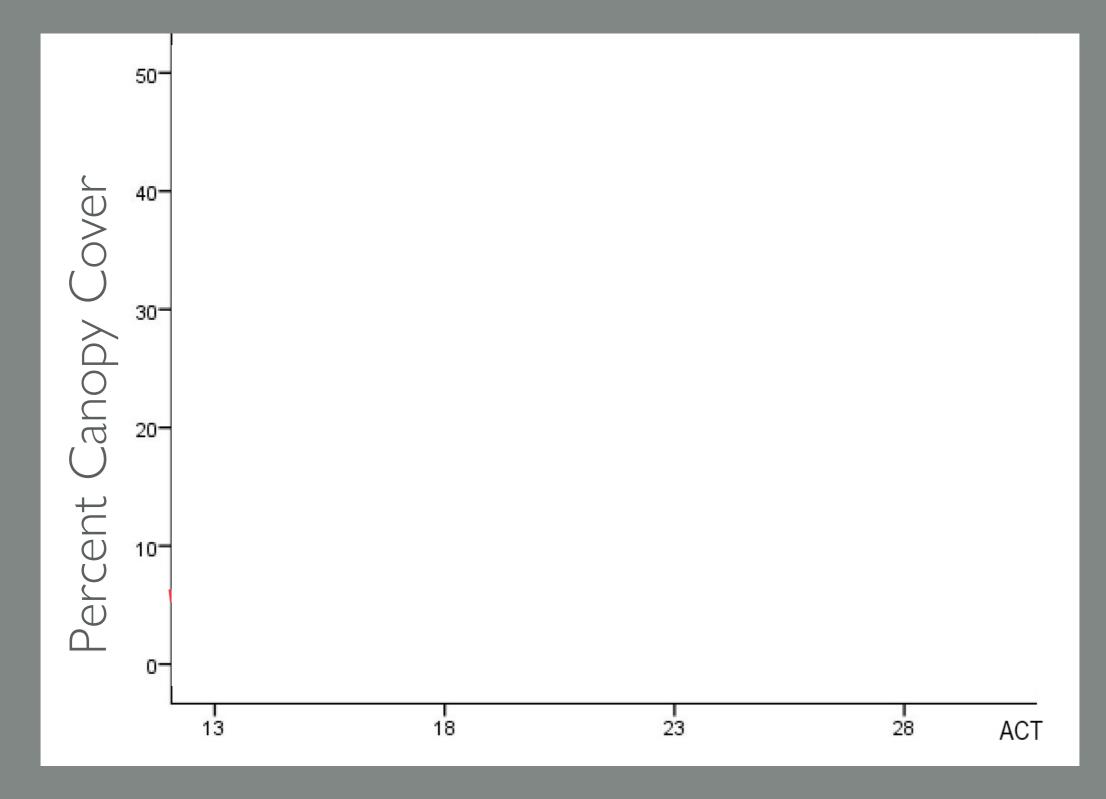


At each high school



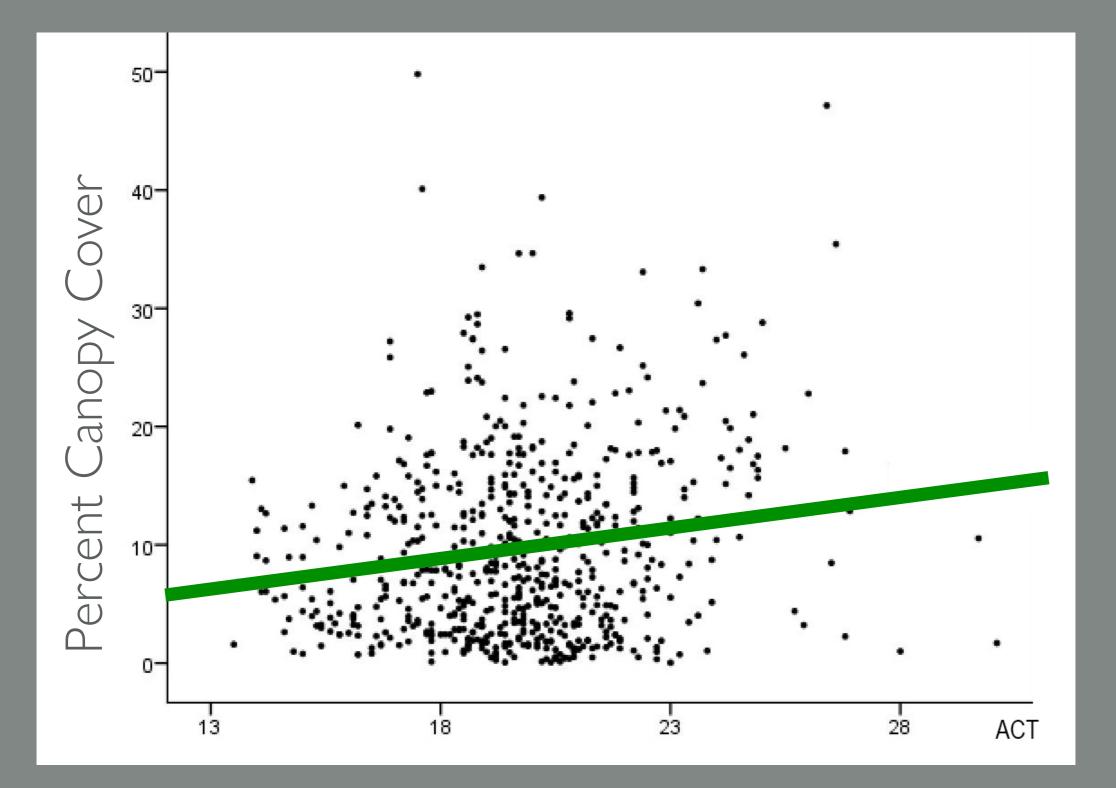
At each high school

IS CANOPY ASSOCIATED WITH PERFORMANCE?

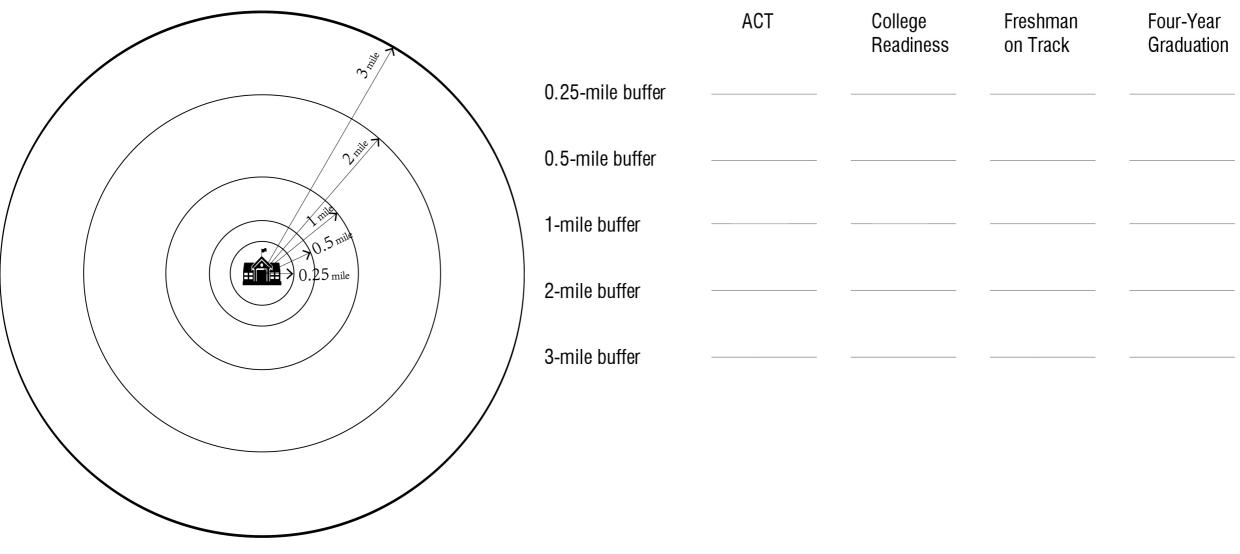


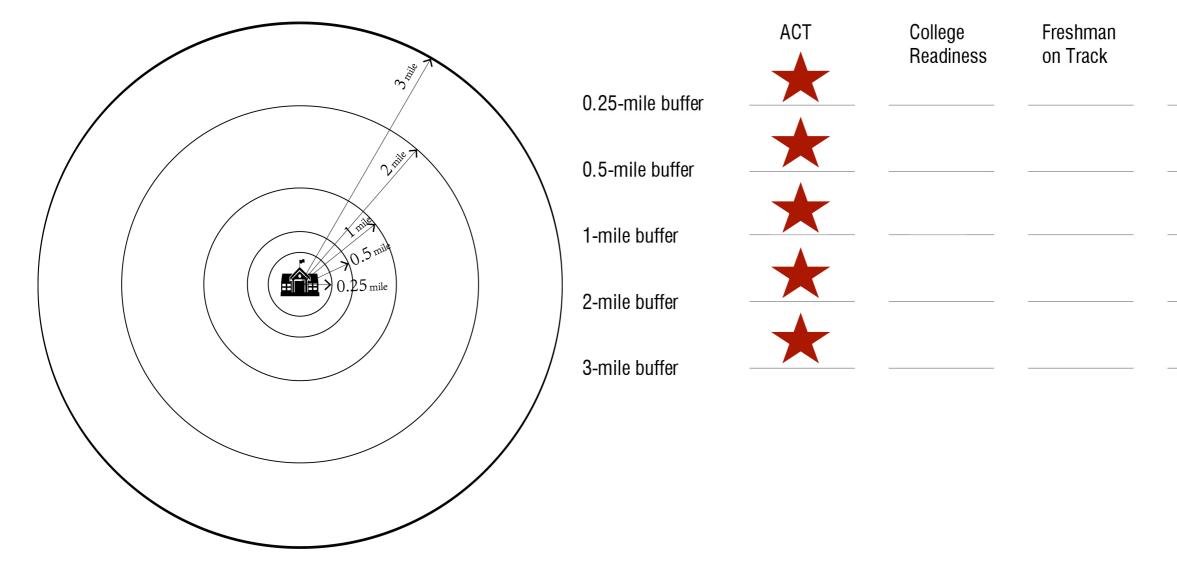
ACT Score

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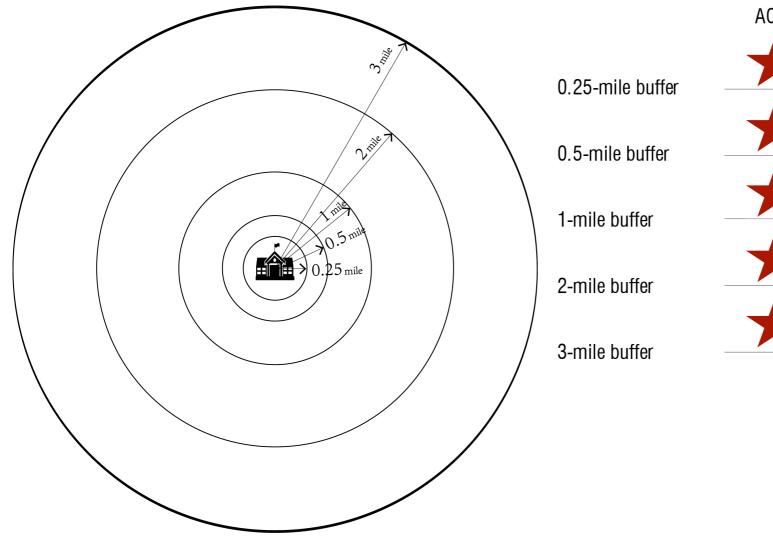
ACT Score



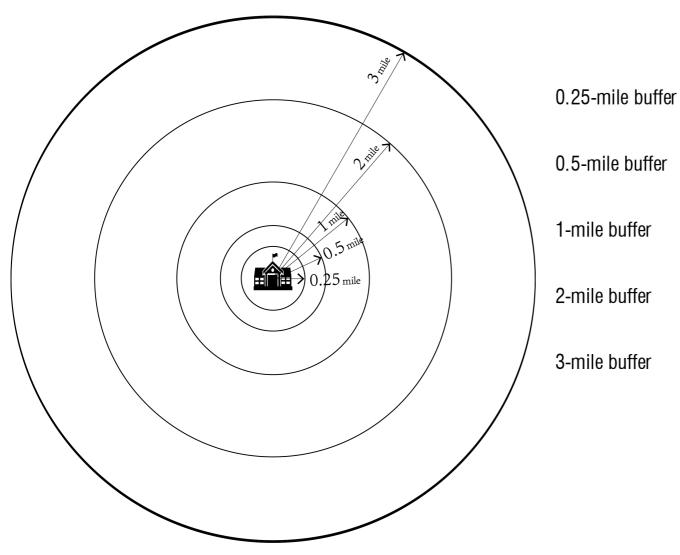


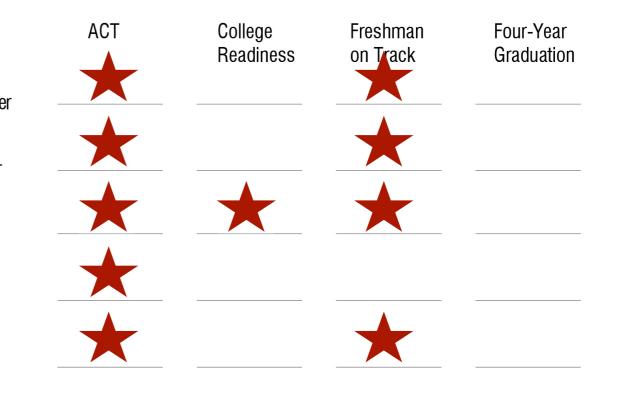
Four-Year

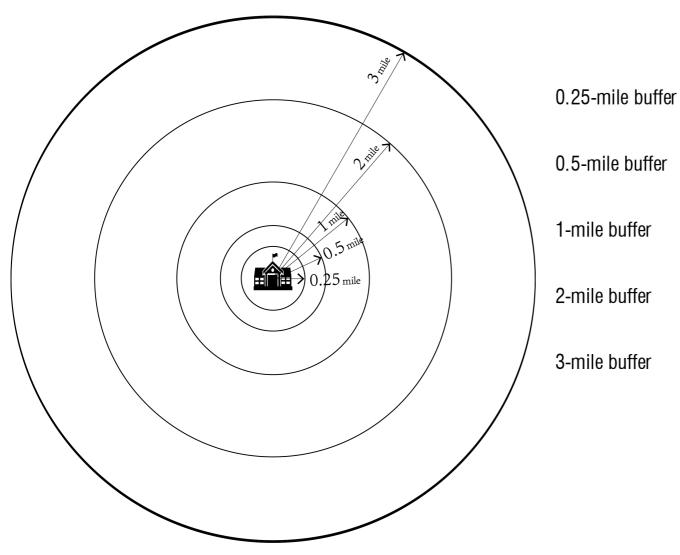
Graduation

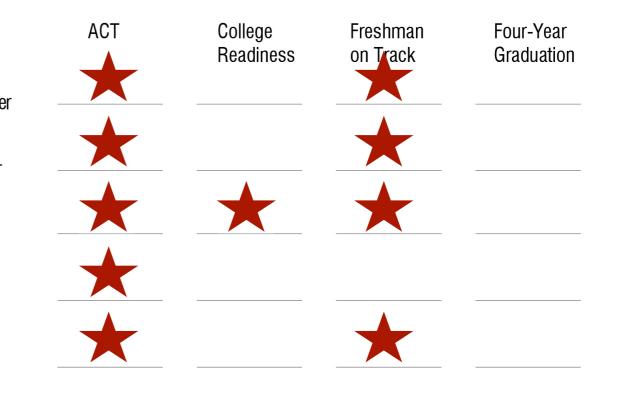


ACT	College Readiness	Freshman on Track	Four-Year Graduation
	$\mathbf{\star}$		
$\mathbf{\star}$			
\star			











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