

# Michigan Tech Styled Beamer Themes

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Sample Document Preparation  
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# Beamer Theme: Houghton

- ▶ professional looking fonts

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- ▶ approved colors for web and publication by Michigan Tech



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- ▶ **nice bullets**



# Let's Prove Something

## Theorem (Sum of Squares)

For  $n \geq 0$ ,

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}.$$



# Let's Prove Something

**Proof.**

**Basis:** For  $n = 0$ ,

$$\sum_{i=1}^n i = 0 = \frac{n(n+1)}{2}$$

**Recurrence:** Assume the result holds for  $n$ . Then for  $n + 1$ ,

$$\sum_{i=1}^{n+1} i = (n+1) + \sum_{i=1}^n i = (n+1) + \frac{n(n+1)}{2} = \frac{(n+1)(n+2)}{2}.$$



# Some Definitions

## Definition (Big- $\mathcal{O}$ )

A function  $f(n)$  is asymptotically bounded below by function  $g(n)$ , i.e.,  $f \in \mathcal{O}(g)$ , if for some  $n_0$  and  $c > 0$ ,  $f(n) \geq c \cdot g(n)$  for all  $n \geq n_0$ .

- ▶ We say that  $f$  is in Big- $\mathcal{O}$  of  $g$ ,  $f = \text{Big-}\mathcal{O}(g)$ , or more rarely  $f \in \text{Big-}\mathcal{O}(g)$ ; although I would argue that the last option is the most correct.





Thank You!

