Michigan Tech Styled Beamer Themes

Jason Hiebel   **Jason Hiebel**

jshiebel@mtu.edu   jshiebel@mtu.edu

Department of Computer Science
Michigan Technological University

Sample Document Preparation
September 2018

Michigan Tech

Beamer Theme: Houghton

▶ professional looking fonts

Beamer Theme: Houghton

- professional looking fonts

- approved colors for web and publication by Michigan Tech

Michigan Tech

Beamer Theme: Houghton

- ▶ professional looking fonts

- ▶ approved colors for web and publication by Michigan Tech

- ▶ simple, unobtrusive navigational information

Michigan Tech

Beamer Theme: Houghton

▶ professional looking fonts

▶ approved colors for web and publication by Michigan Tech

▶ simple, unobtrusive navigational information

▶ **nice bullets**

Michigan Tech

Let's Prove Something

Theorem (Sum of Squares)

For $n \geq 0$,

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

Michigan Tech

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 $n + 1$,

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

$\square$

Michigan Tech

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!

Michigan Tech