

# Beamer Template for Texas A&M University

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# Outline

## 1 Sample Section

## 2 Various Samples

- Sample Subsection
- Another Sample Subsection
- Yet Another Sample Subsection

## 3 Summary

# Computing Everywhere in 2020

- Computers/computing everywhere —  $10^4$  CPUs per person
  - Real-world computing — sensors and actuators
  - Massively distributed and embedded
  - Collect data and make decisions
- Massive data — a TeraByte per person per day
  - Sensors, personal, scientific, business, etc...
  - Extract information from this mass of data
  - Serious privacy issues
- People will spend much time in virtual environments
  - Integrating digital and physical worlds
  - Games, Interactive Movies, Virtual Classrooms — many connected to physical spaces

# A Block Example

## Computers/computing everywhere — $10^4$ CPUs per person

- Real-world computing — sensors and actuators
- Massively distributed and embedded
- Collect data and make decisions

# Pictures in Columns

A sample figure.

Another sample figure.

# Formulas

- Electromagnetic Wave

- Maxwell:

$$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t} \quad (1)$$

$$\nabla \times \mathbf{H} = \mathbf{J} + \frac{\partial \mathbf{D}}{\partial t} \quad (2)$$

$$\nabla \cdot \mathbf{D} = \rho \quad (3)$$

$$\nabla \cdot \mathbf{B} = 0 \quad (4)$$

- Probability

- Normal Distribution  $\mathcal{N}(\mu, \sigma^2)$ :

$$\int_{-\infty}^{\infty} \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}} dx = 1.$$

# Formulas With Texts

Formulas in plain texts:  $P_{\text{out}}$

- Formulas in lists
- EARTH model

$$P_{\text{in}} = \begin{cases} N_{\text{TRX}} P_0 + \Delta_p P_{\text{out}}, & 0 < P_{\text{out}} \leq P_{\text{max}} \\ N_{\text{TRX}} P_{\text{sleep}}, & P_{\text{out}} = 0 \end{cases} \quad (5)$$

## Formulas in blocks

Here is the EARTH model again:

$$P_{\text{in}} = \begin{cases} N_{\text{TRX}} P_0 + \Delta_p P_{\text{out}}, & 0 < P_{\text{out}} \leq P_{\text{max}} \\ N_{\text{TRX}} P_{\text{sleep}}, & P_{\text{out}} = 0 \end{cases} \quad (6)$$

# Title

## Subtitle

- Item 1
- Item 2
- Footnote citations [1], [2]

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[1] T. Tantau, J. Wright, and V. Miletić, *The beamer class user guide for version 3.12*, 2011.

[2] C. E. Shannon, "A mathematical theory of communication," *Bell System Technical Journal*, vol. 27, pp. 379–423, 523–656, Jul. 1948. [Online]. Available: <http://cm.bell-labs.com/cm/ms/what/shannonday/paper.html>.



# Summary

- Lorem ipsum
- An outlook to the future.

