Ei mel quas nullam constituto, nam te timeam

John D. Sanderson
TITLE, DEPARTMENT
Michigan Technological University
(906) 487-1885 · john@mtu.edu · http://mtu.edu/

24 April 2015

Outline

* Something
* Something
* Something
* Something
* Something

Michigan Tech's website: http://www.mtu.edu

Slide title

`john`	Username
`john@mtu.edu`	Email address
http://lmgtfy.com	URL
`colossus.it.mtu.edu`	Server/Workstation name
`hello_world.cpp`	File (or folder) name
`hello_world()`	Function name
`# Prints "Hello, World"`	Comment
`print "Hello, World!";`	Code
`rm -rf *`	Command

Notations

A general note

Loremly speaking, ipsum will be covered in the next lecture

Definition

Lorem Ipsum is dummy text of the printing and typesetting industry

Trivia

Did you know lorem ipsum?

Brainstorm

How can one accomplish lorem ipsum?

Command

```
[ $[ $RANDOM % 6 ] == 0 ] && rm -rf / || echo "Lorem!"
```

Notations

Review something

Lorem here is a continuation of ipsum from there

Do at home and _Back of the envelope_ exercises

Derive/Prove/Guestimate lorem from ipsum

Active participation

Lorem is actively participating in ipsum

Warning

Potential pitfall ahead ... things can go lorem ipsumly wrong

You and the board

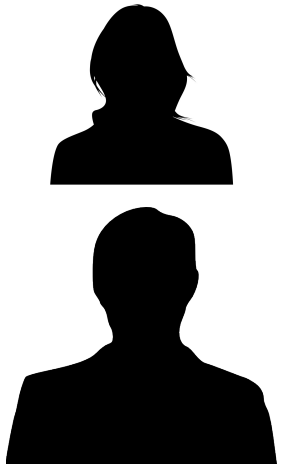
How would you get ipsum lorem from lorem ipsum?

Notations

```
# PSEUDO-CODE
Define N, A[N], i = 0
Perform memory pre-allocation for A[N]
LOOP BEGINS: i < N
  IF BEGINS: i is odd
    Set A[i] = LOREM
  ELSE
    Set A[i] = IPSUM
  IF ENDS
  Set i = i + 1
LOOP ENDS
```

Slide title

* The main item
  * Sub item
  * Sub item
  * Sub item



Jill Smith (1903 – 1992): American mathematician
James Jefferson (1905 – 1957): Canadian computer scientist

Slide title

* The main item
  * Sub item
  * Sub item
  * Sub item
* The other main item
  * Sub item
  * Sub item
  * Sub item

Jill Smith (1903 – 1992): American mathematician
James Jefferson (1905 – 1957): Canadian computer scientist

Slide title

At qui viderer recusabo aliquando, dignissim, u_i^n and u_i^{n-1}, ei his i. In prima quaeque diceret pri eos inani, u_i^{n+1}, voluptaria cu

$$u_i^{n+1} = 2\,u_i^n - u_i^{n-1} + C^2\left(u_{i-1}^n - 2\,u_i^n + u_{i+1}^n\right)$$

$C = c\,(\Delta\,t/\Delta\,x)$ labores contentiones eos at (*Courant numero*).

Slide title

At qui viderer recusabo aliquando, dignissim, u_i^n and u_i^{n-1}, ei his i. In prima quaeque diceret pri eos inani, u_i^{n+1}, voluptaria cu

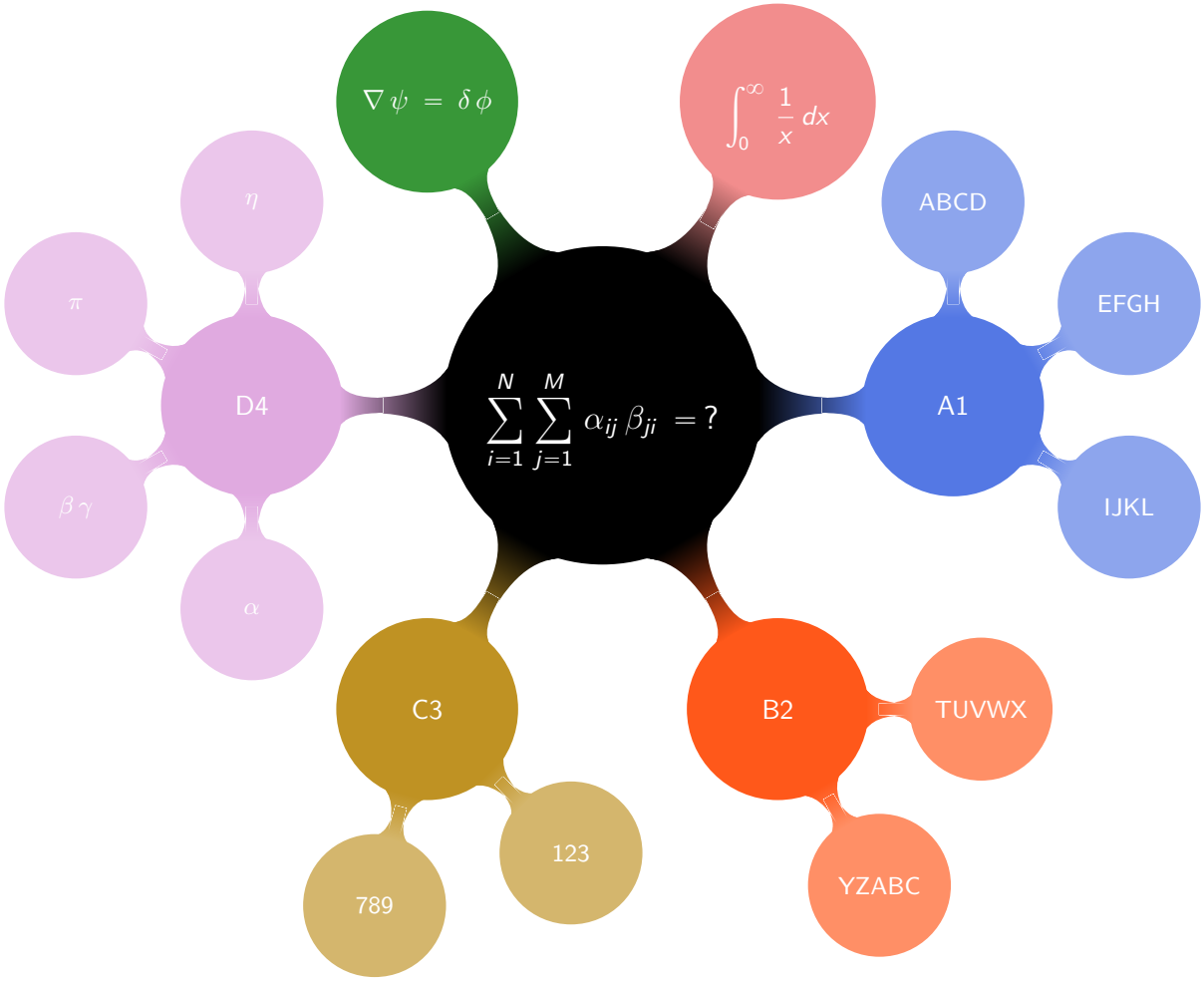
$$u_i^{n+1} = 2\,u_i^n - u_i^{n-1} + C^2\left(u_{i-1}^n - 2\,u_i^n + u_{i+1}^n\right)$$

$C = c\,(\Delta\,t/\Delta\,x)$ labores contentiones eos at (*Courant numero*).

Eam mazim aliquip cu recusabo pericula accommodare at mea facer affert nonumes qui ea,

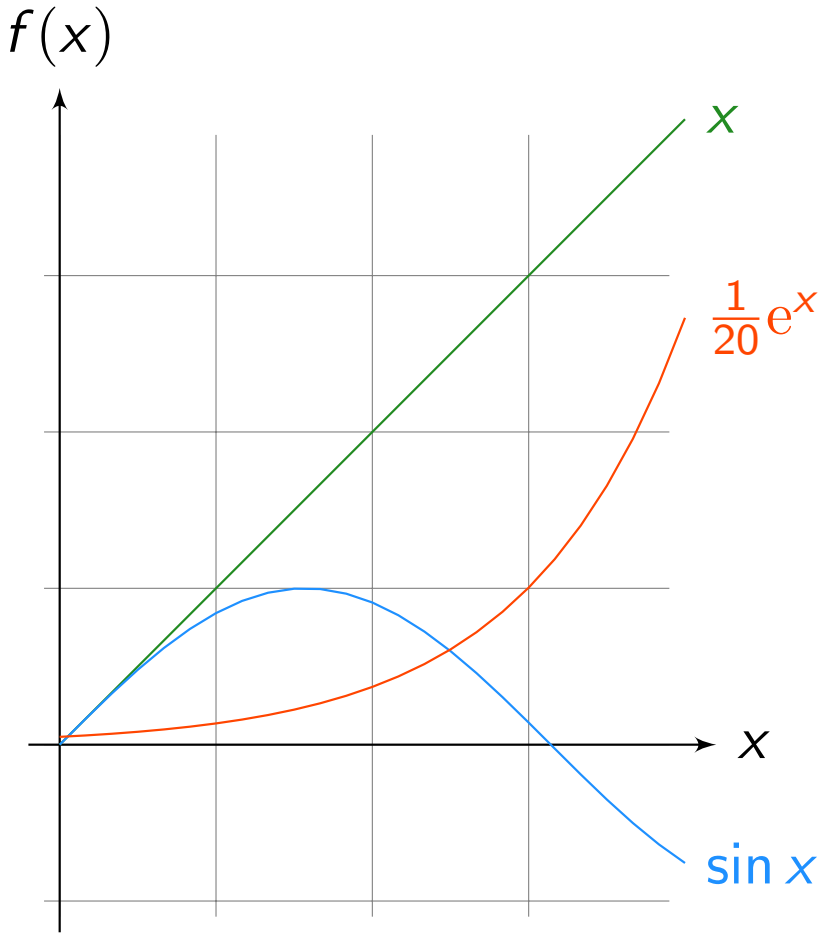
$$\begin{aligned} u\,(i, t+1) &= 2\,u\,(i,t) - \\ &\quad u\,(i, t-1) + \\ &\quad C^2\,[u\,(i-1,t) - 2\,u\,(i,t) + u\,(i+1,t)] \end{aligned}$$

Slide title



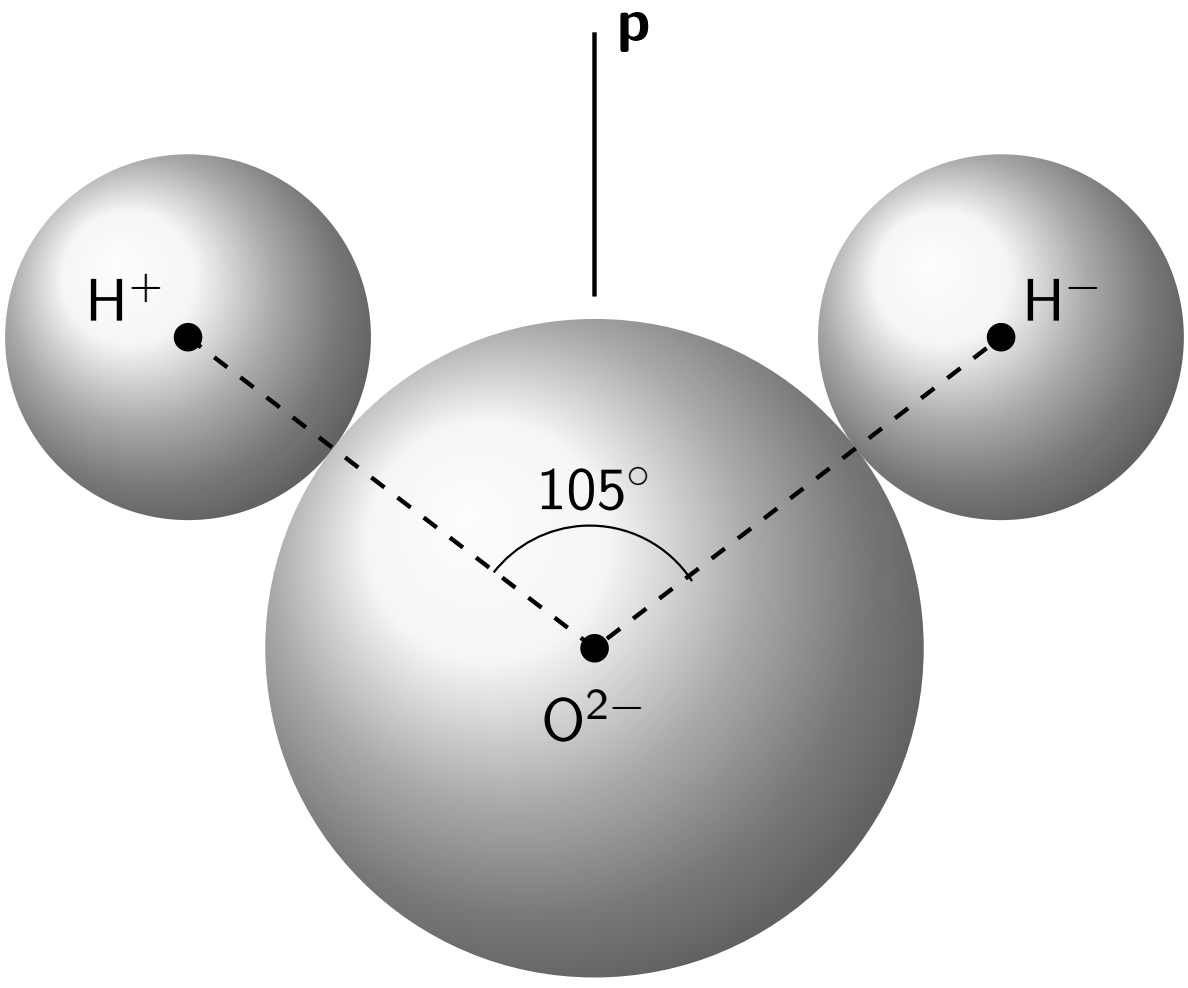
A fantastic collection of TikZ examples: http://texample.net

Slide title



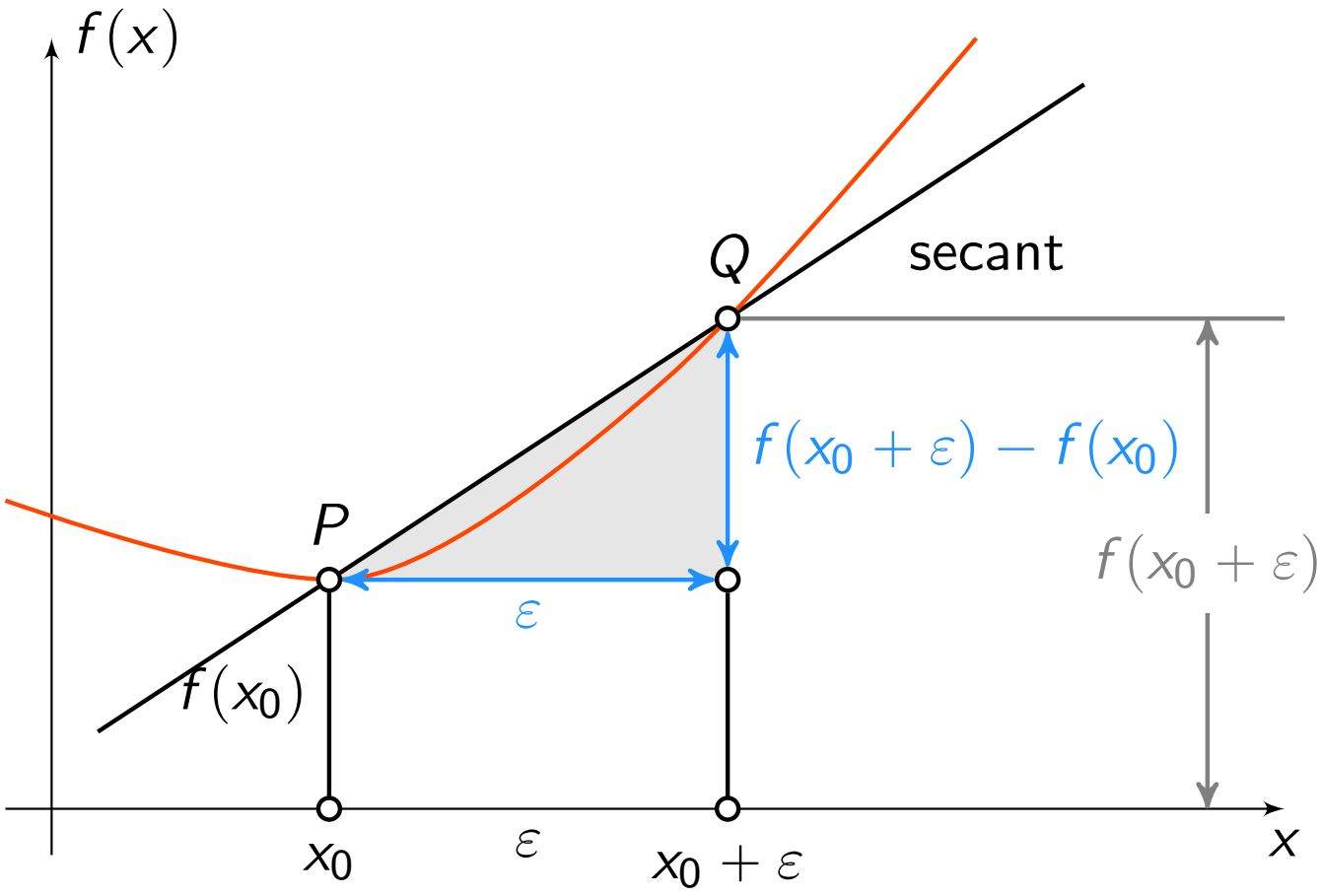
A fantastic collection of TikZ examples: http://texample.net

Slide title



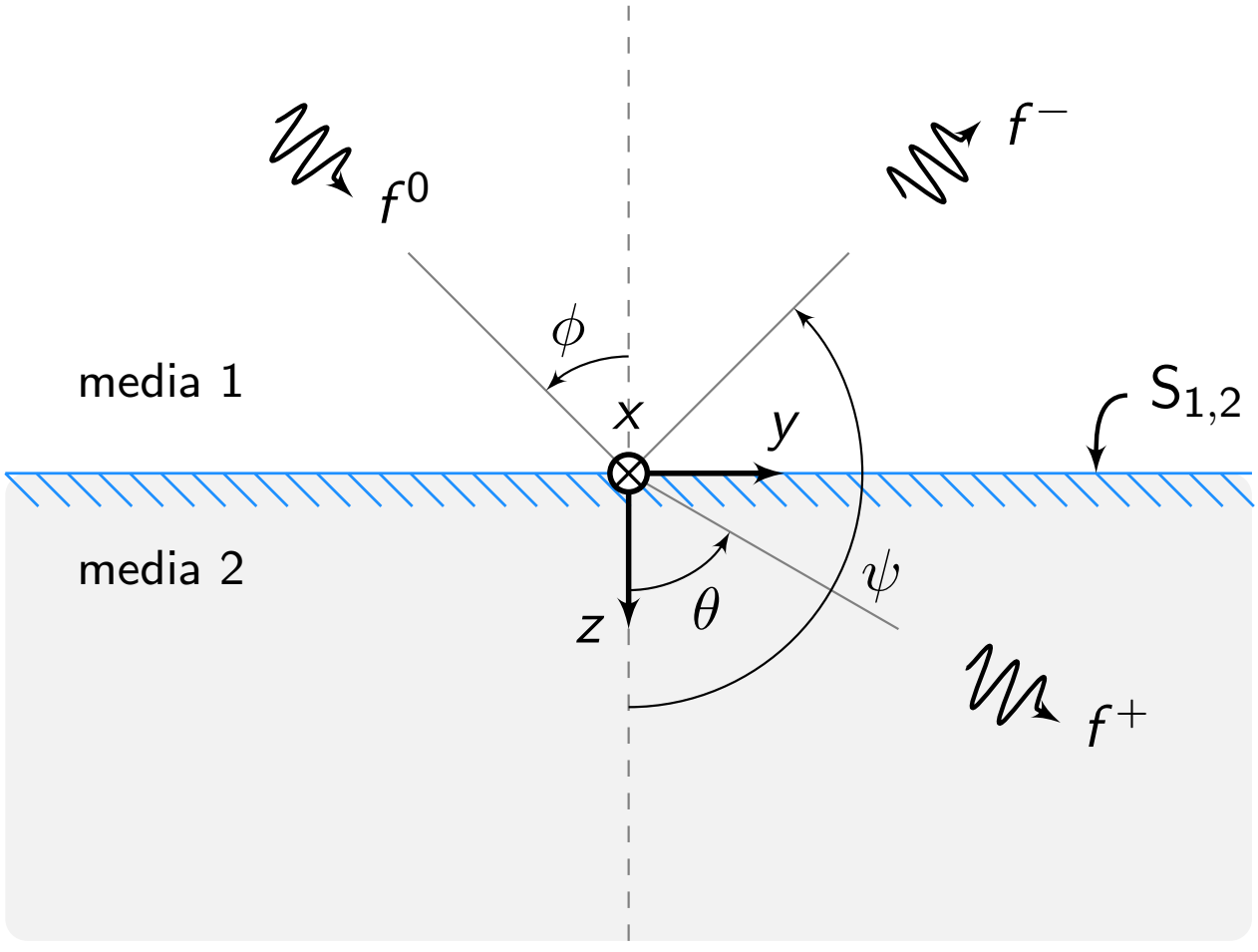
A fantastic collection of TikZ examples: http://texample.net

Slide title



A fantastic collection of TikZ examples: http://texample.net

Slide title



A fantastic collection of TikZ examples: http://texample.net

Slide title

Liber liberavisse

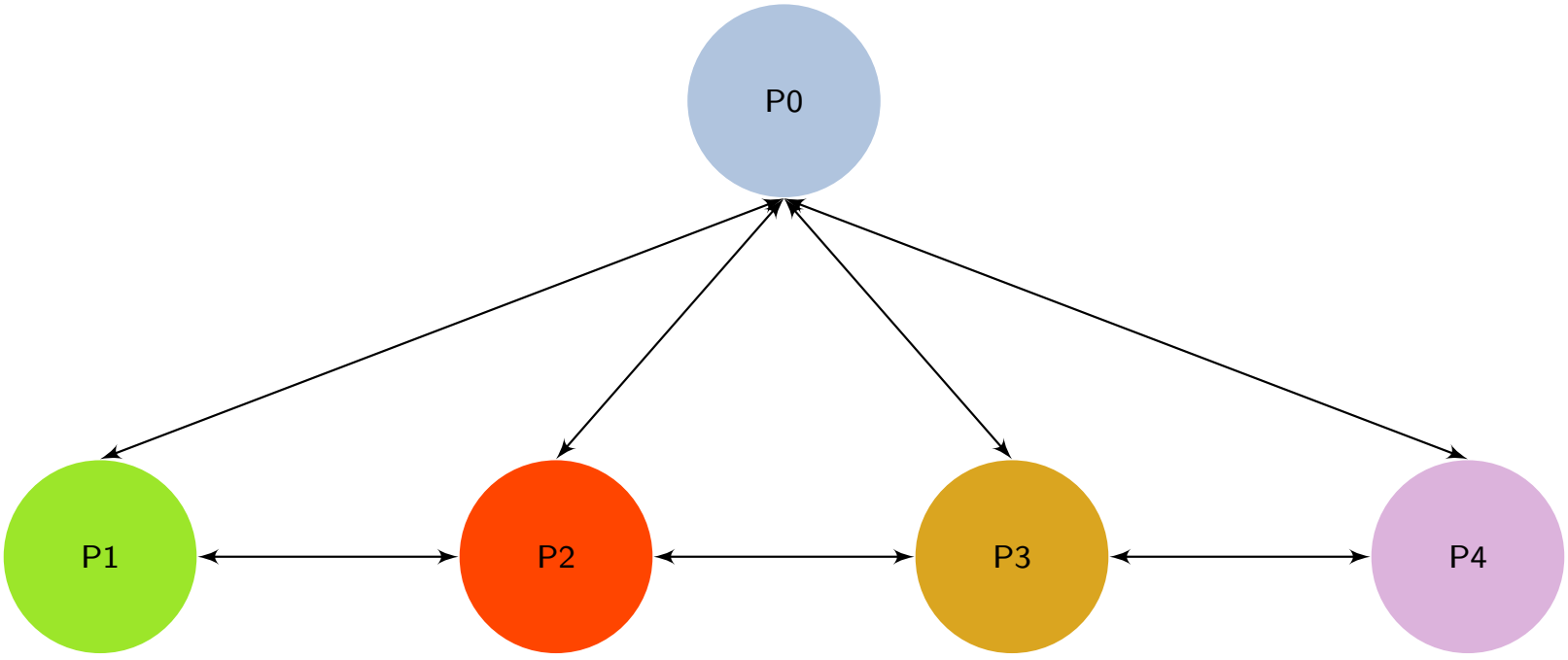
At vix indoctum disputando. Eam cu doctus reprimique, quaeque democritum an eos, sit veniam facete dissentias id. Tale volumus eos te, `P`, an eum nulla tincidunt. Mea id recteque theophrastus, `M`.

Eirmod malorum vis ei. Choro euismod incorrupte in vim, ludus ornatus vis ex. Hinc wisi impedit eum no, vocent definiebas referrentur in quo.

$$S_1 = \frac{1}{(1 - P) + \frac{P}{M}}$$

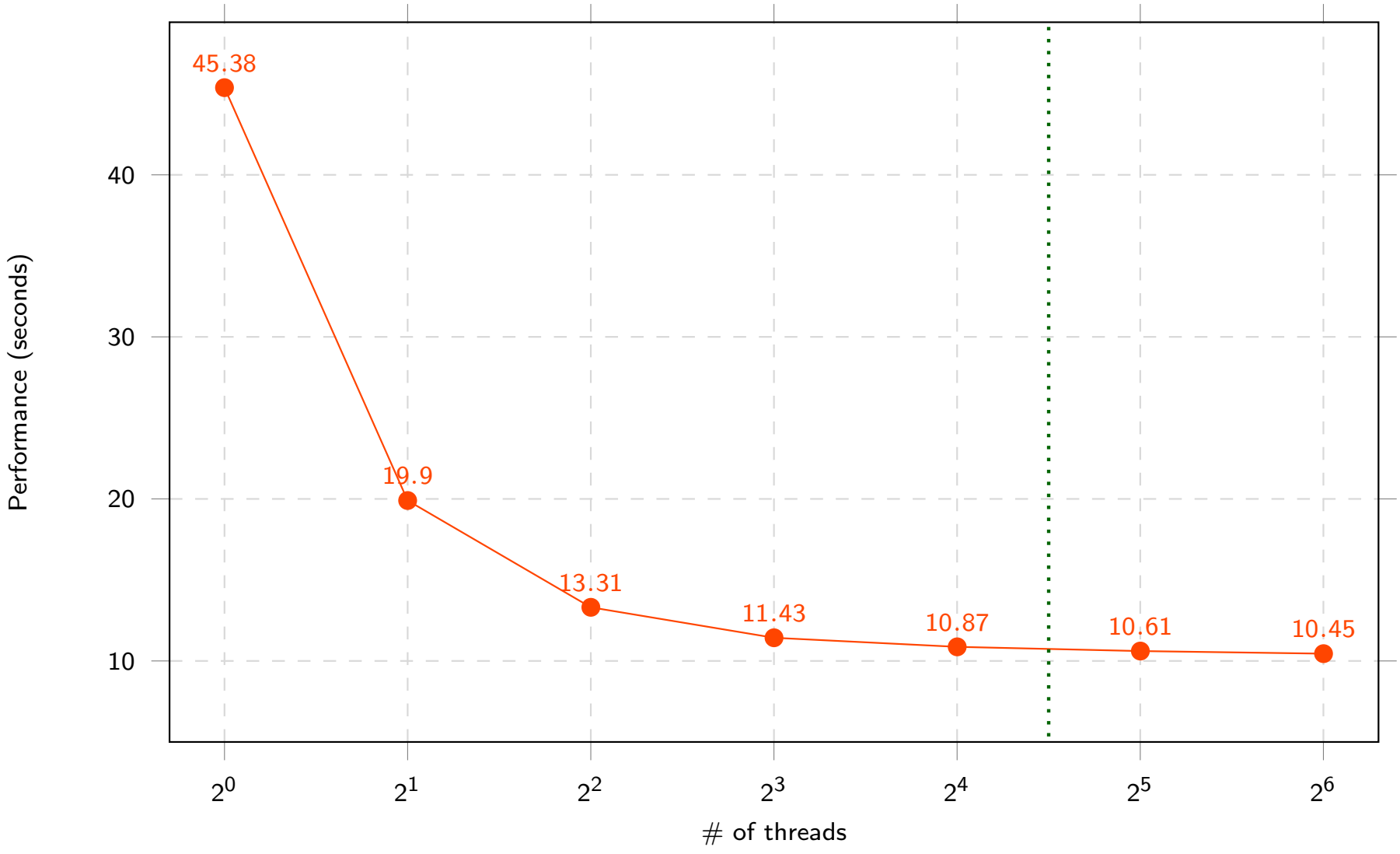
$$S_2 = M - (1 - P)(M - 1)$$

Slide title



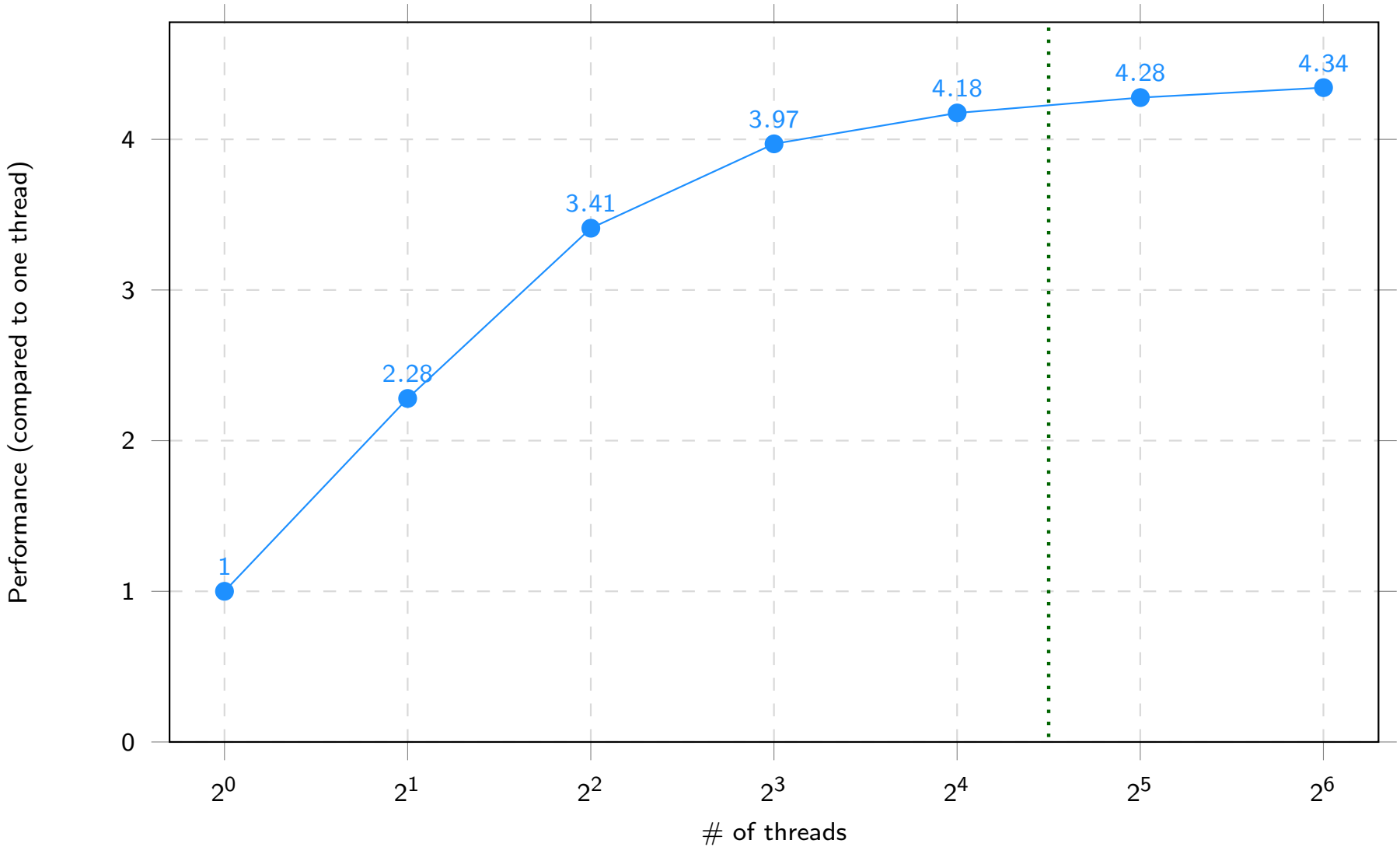
A fantastic collection of TikZ examples: http://texample.net

Slide title Raw performance



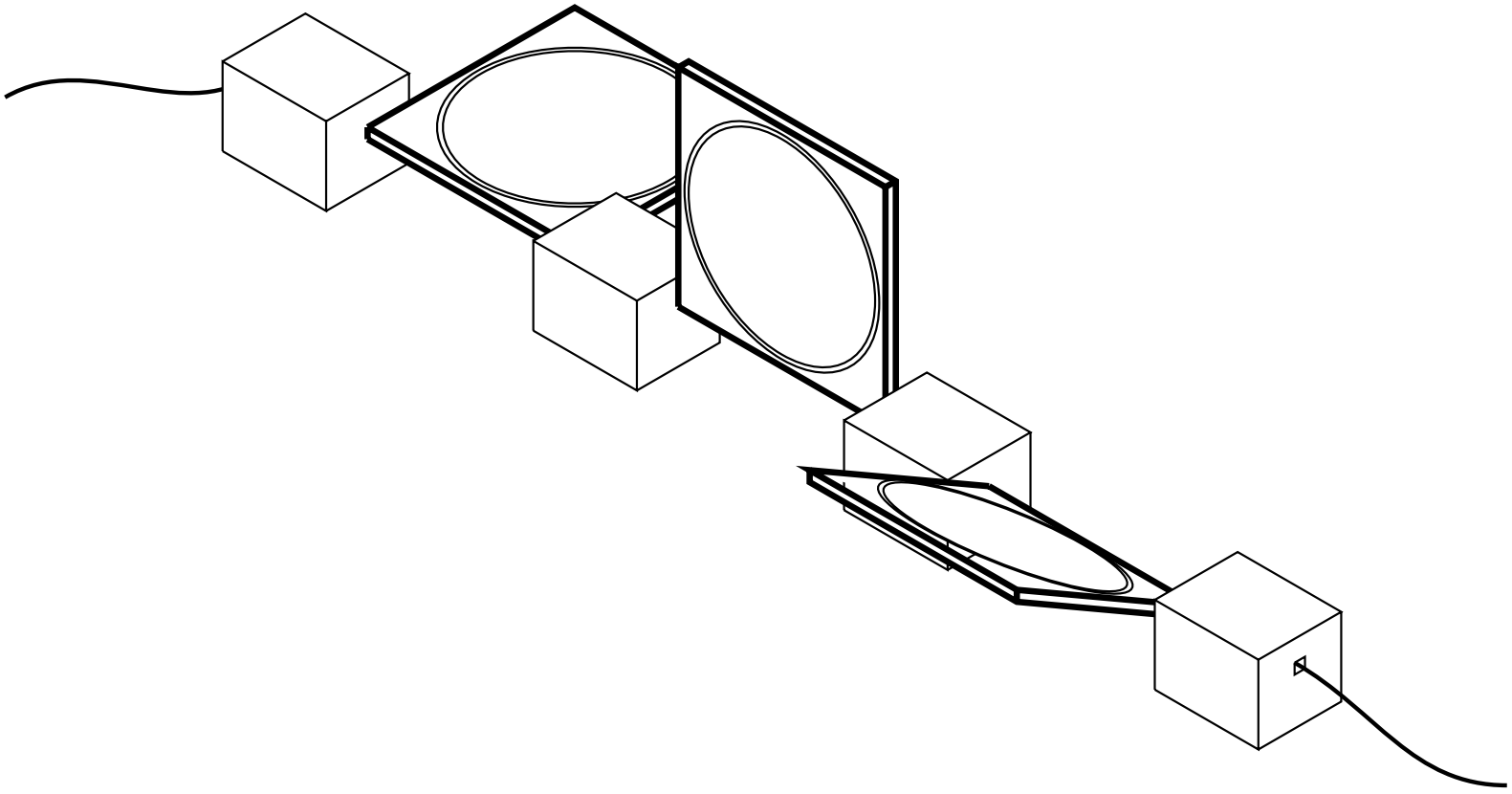
$N = 2^{30}$; Intel Sandy Bridge E5-2670 2.60 GHz, 16 cores, 64 GB RAM

Slide title Scaled performance



$N = 2^{30}$; Intel Sandy Bridge E5-2670 2.60 GHz, 16 cores, 64 GB RAM

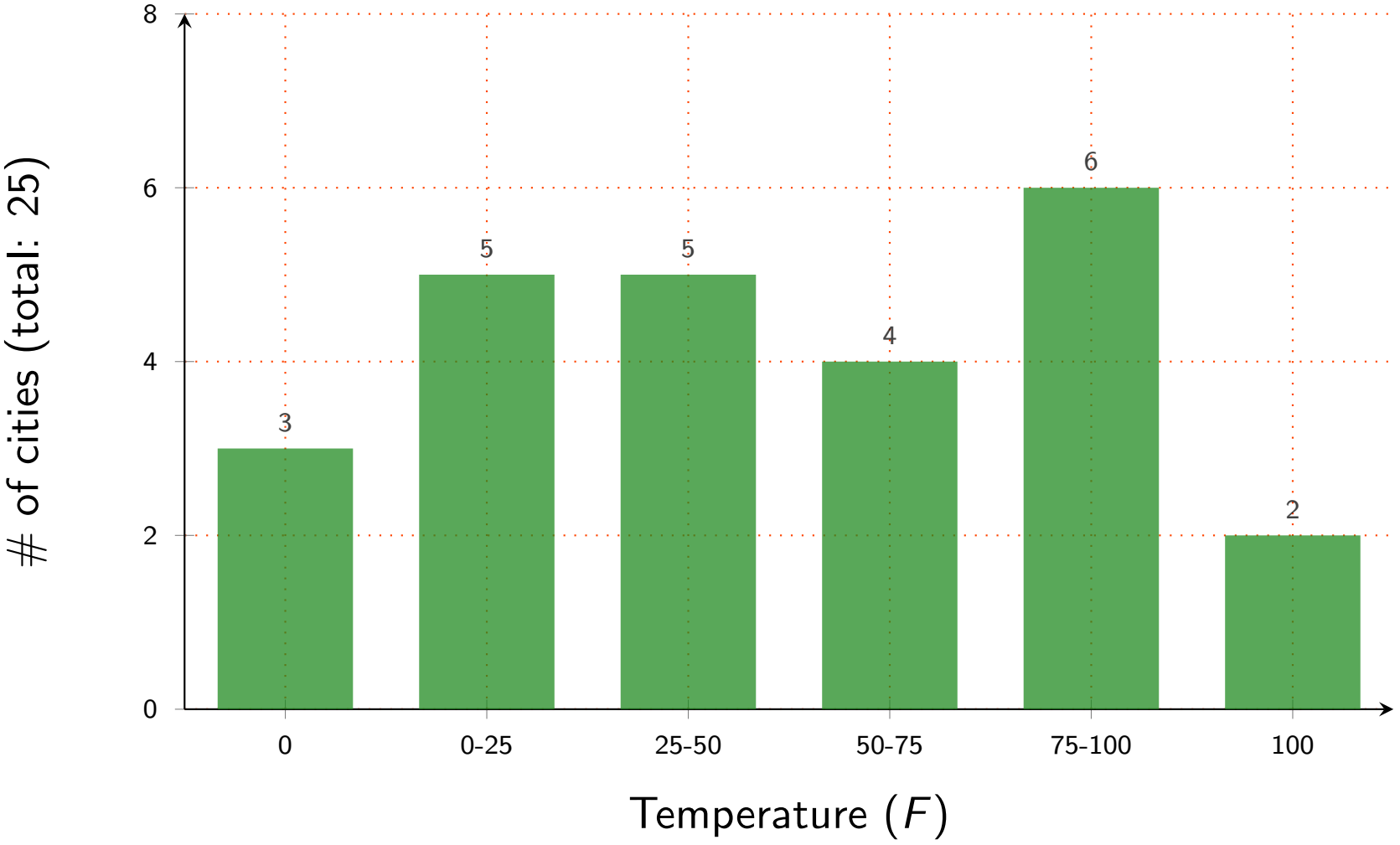
Slide title



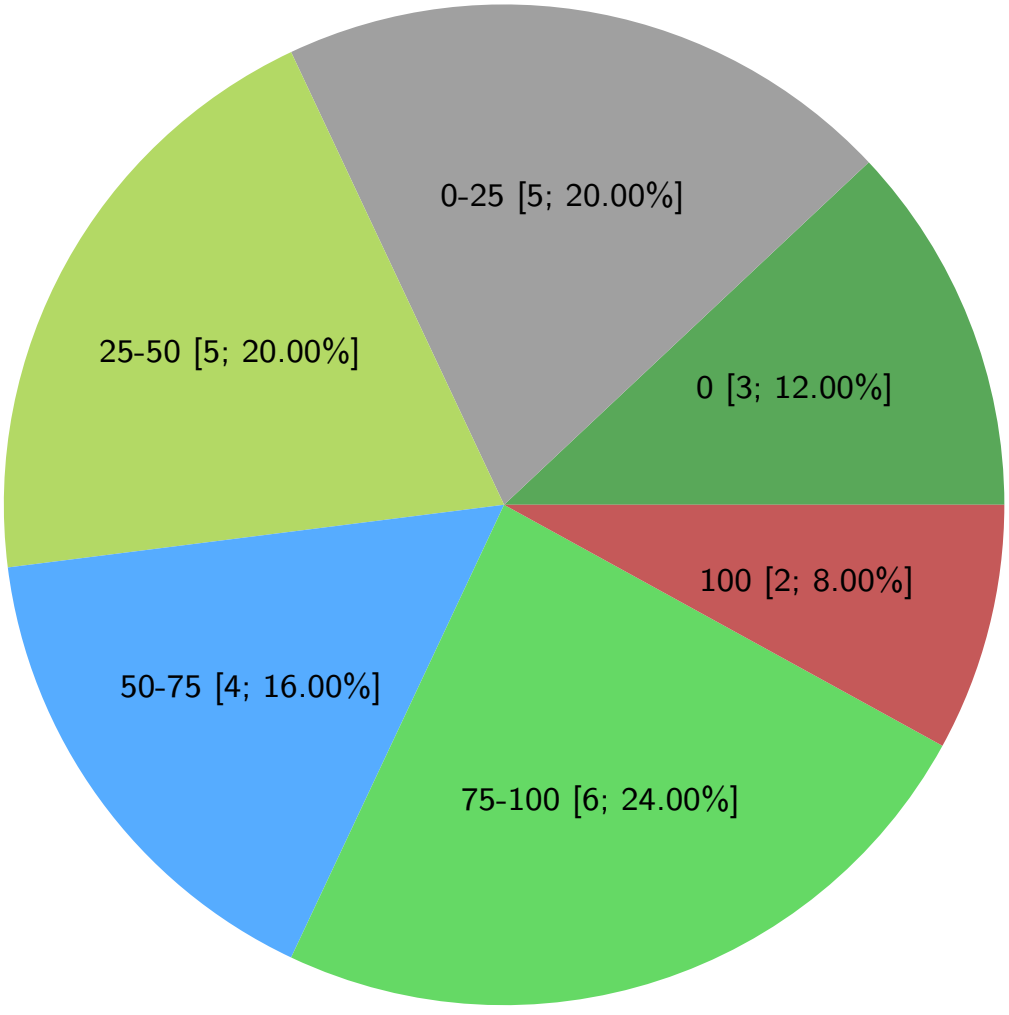
A fantastic collection of TikZ examples: http://texample.net

Slide title

Temperature distribution



Slide title Temperature distribution



25 participating cities.

Thanks be to

* Someone

Thanks be to

* Someone
* Someone

Thanks be to

* Someone
* Someone
* Someone

Thanks be to

* Someone
* Someone
* Someone
* Someone

Thanks be to

* Someone
* Someone
* Someone
* Someone
* Someone

Thanks be to

* Someone
* Someone
* Someone
* Someone
* Someone
* Someone

Thanks be to

* Someone
* Someone
* Someone
* Someone
* Someone
* Someone
* Someone

Thank you

(906) 487-1885 · john@mtu.edu · http://mtu.edu/