

# Pivotal Beamer Template

**Example Presentation** 

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#### Outline

1 First Section

2 Second Section

3 Some Code

Pivotal.

First Section

#### Buzzwords

- Big data
  - 1 Next generation data science
  - 2 Elastic deep learning
- Industry 8.0
- IoT 5.0
- More cloud  $\rightarrow$  more winning

#### Two columns

- Considering the aspect ratio is 16:9
- It is probably a good idea to use two columns
- To avoid really long lines
- Typesetting just looks nicer than in PowerPoint
- And it can be versioned!

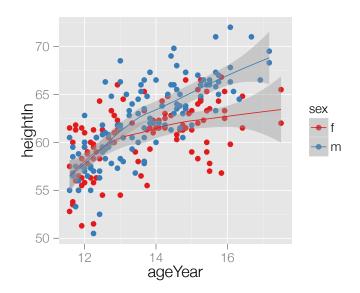
- Some other content on this side
- Big data
- More big data
- Hadoop
- GPDB
- MADlib
- x+y=z

#### Let us create a plot with ggplot2

- ggplot2 is a really nice plotting library
- It can export graphics using TikZ
- Which look really nice in ATEX

```
library(ggplot2)
library(gcookbook)
sps <- ggplot(heightweight, aes(x=ageYear, y=heightIn, colour=sex))
+ geom_point()
sps + geom_smooth()</pre>
```

# The plot using TikZ



# Second Section

# A timeline using TikZ



# Explaining equations (TEXample.net)

Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^b d^2}{dt^2} \vec{r} + 2\vec{w}_{ib} \times \frac{{}^b d}{dt} \vec{r} + \vec{\alpha}_{ib} \times \vec{r} + \vec{w}_{ib} \times (\vec{w}_{ib} \times \vec{r})$$

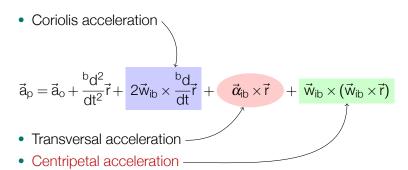
## Explaining equations (TEXample.net)

Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^b d^2}{dt^2} \vec{r} + 2\vec{w}_{ib} \times \frac{{}^b d}{dt} \vec{r} + \vec{\alpha}_{ib} \times \vec{r} + \vec{w}_{ib} \times (\vec{w}_{ib} \times \vec{r})$$

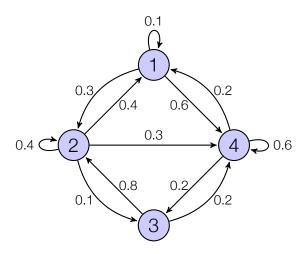
Transversal acceleration

## Explaining equations (TEXample.net)



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# A graph (TEXample.net)



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Some Code

## Python

Pygments via minted has syntax highlighting for all major languages

```
# List comprehensions
 1
     num = [1, 4, -5, 10, -7, 2, 3, -1]
     filtered and squared = [x**2 \text{ for } x \text{ in num if } x > 0]
     print filtered and squared
 4
 5
     # Generators
     num = [1, 4, -5, 10, -7, 2, 3, -1]
 7
     filtered and squared = (x**2 \text{ for } x \text{ in num if } x > 0)
8
     print filtered_and_squared
9
10
     for item in filtered and squared:
11
12
          print item
```

#### New dplyr package

```
librarv(dplvr)
 1
     # Built in data frame
 3
     head(hflights)
 4
     # Coerce to data table
 5
6
     hflights dt <- tbl dt(hflights)
7
8
     # Caches data in local SOLite db
9
     hflights db1 <- tbl(hflights sqlite(), "hflights")
10
11
     # Caches data in local postures db
     hflights db2 <- tbl(hflights postgres(), "hflights")</pre>
12
13
14
     carriers_df <- group_by(hflights, UniqueCarrier)</pre>
     carriers dt <- group by(hflights dt, UniqueCarrier)</pre>
15
     carriers_db1 <- group_by(hflights_db1, UniqueCarrier)</pre>
16
17
     carriers_db2 <- group_by(hflights_db2, UniqueCarrier)</pre>
```

#### SQL

```
select public.diabetes.diabetes,
 1
         madlib.logregr_predict( array[1, times_pregnant,
                 plasma,
                 diastolic_blood_pressure,
                 triceps_skin_fold_thickness,
 5
                 serum insulin,
                 bmi.
                 diabetes pedigree,
                 age],
9
             public.diabetes_log_reg_ronert.coef
10
             )::integer as predict
11
     from public.diabetes, public.diabetes_log_reg_ronert limit 100;
12
```

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