# OVERLOAD OF INFORMATION TWITTER TIMELINE IMPROVEMENT



Master Thesis School of Computer and Communications

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Lausanne, EPFL, 2014

Wings are a constraint that makes it possible to fly.

— Robert Bringhurst

To my parents...

### Acknowledgements

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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Lausanne, 12 Mars 2011

D. K.

## **Abstract**

- Motivation
- Sum ip
- Results

Key words:

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### Introduction

Since the sudden upsurge of Social Networks at the beginning of the 2000's, the time spent on social media has growing considerably. In 2006, two years after Facebook's creation, users were connected for only 5.5 min. per day. Five years later, the number of users has been multiplied by 70 and the time spent by 2.5. With these increases social networks have become very appealing to several sectors, such as marketing, insurance and investing. However, social medias have to deal with many constraints coming from from their users and the internet itself. Today, there exists more than twenty virtual communities with more than 100 million active users. As a result, there is a vast amount of information available to the public, and this is increasing at an ever-increasing rate. In 1970, Alvin Toffler talked about Information overload in cognitive psychology. Over the decades, following the technology evolution, this expression was more and more applicable to the web and to social media. In addition, companies like Twitter or Facebook have to deal with the engagement of their users. Despite its 500 million active users, the microblogging service saw its stock price drop of more than 23% because of low engagement of its users. The time spent online is now considered more important than the number of users.

After having grown their number of users, the social media companies are now focusing on increasing the engagement and the time spent on their sites. In order to retain users, Facebook conducted research in the field of sociology linked to big data analysis. Thanks to this research, the EdgeRank algorithm was launched in 2010, and was designed to optimize users News Feed. In 2012, Facebook launched its new design in order to improve the user experience and the workflow of its platform. Following its big brother, Twitter launched in its new design in April 2004. The design was considered by many bloggers as the copy of Facebook's one. However, Wall Street answered positively to this strategy which reassured many investors. In this project, we perform an A/B test on Twitter users in order to measure their engagement. In order to avoid Information overload, we use a simple design which allows the candidate to engage with their tweets one by one. Our two dependent variables are interest and time, we attempt to measure their impact on the engagement in a non overloaded environnement. Firstly, the paper discusses the studies related to this field and explain the motivation this topic is outlined. Second, the paper describes the protocol which was followed and the technical implementation done in Python. Third, the method of data acquisition is recalled. Finally, we analysis and discuss the data is analysed and discussed in order to come to a conclusion.

## Background

A non-numbered chapter...

- Related works
- Design old/new

### 1 Motivations & Evolution

To do

#### 1.1 Motivations

Social media has an important role in the real world and has an impact which was probably under estimated a couple of years ago. Historical events like the arab spring or the election in Cambodia are two examples which show social media can be a powerful force for change when compared to other media. These events lead to studies about human behaviour and engagement on these platforms.

For users, one of the main goal is to increase the time efficiency on social media. Today, 27% of an hour spent online is on social media. There are many methods used to try to make users' time on social media more efficient. As we saw with EdgeRank, the filtering of the information is one of the main ones.

Recently, Twitter had to deal with an engagement problem. As we can see on figure 1.2, despite

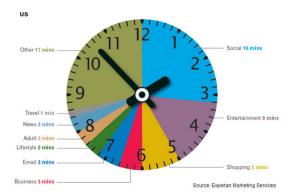


Figure 1.1: The clock shows the repartition of the web TO DO *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

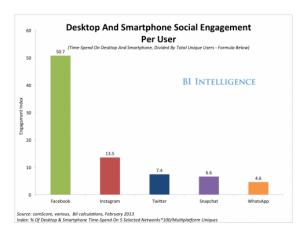


Figure 1.2: Social Engagement TO DO *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

is 550 million users, Twitter has an engagement lower than Facebook or Instagram: this weakness led to a drop in its stock price. However, "engagement" has no scientific definition and by consequence, there is no unique solution to this problem. By considering a new design which reduce the overload of information, it will be possible to analyse more details relating to the problem of engagement. By doing this it will be possible to improve user time efficiency and twitter engagement issues.

#### 1.2 Project evolution

Information overload is a large topic and many aspects could have been approached. By viewing Figure 1.3 can understand better why it was decide to focus the research on Twitter. Our three main criteria are: privacy, content and technique.

Firstly, with Gmail, privacy and content were being dealt with. Due to the email variate and the personal characters of email, it was difficult to establish a protocol in order to improve the filtering of the emails. Secondly, we started to develop, with a similar design, applications based on different social media like Reddit or Tumblr.

Finally, Tinder and Twitter were found to be of particular interest, due to the design of the Tinder app and the 140 character limit of Twitter. For these two reasons and Twitter's simple API The idea of Twinder was arrived upon.

You can find in annex the diagram showing the evolution of the project through 3 aspects: technique, apps implementation and research.

\*:content is not constant \*\*: 140 char with image or not

x: problem for implementing the experiment v: ok for implementing the experiment

	Gmail	Feedly	Reddit	Tumbir	Twitter	Faceboo k
Privacy	8	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	8
Content	8	<b>②</b>	❸.	❸.	<b>Ø</b>	<b>②</b>
API	<b>②</b>	8	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>

Figure 1.3: Lalala TO DO *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

## 2 Methodology

In this section, we describe our methodology for estimating behaviours of users in social media sites from observational data. Thanks to the literature we reviewed, we noticed that the interest and engagement are two crucial metrics for social media. These two values are dependant on many parameters which are not easy to determine. The user and the platform (Facebook, Twitter...) are the two main sources of variation. From the user perspective, their mood, stress and age are factors modifying the two metrics. From the service side, the factors are well known from the companies, many engineers are focusing on developing better solutions for the user. These solutions are taking into consideration the content, the display, meta-data and are today more accurate thanks to Big Data (Facebook 100000 weight).

Due to three main reasons mentioned in the previous chapter which are privacy, content and technique, we based our experiment on Twitter. In this way, the content is normalised and the user is used to it because we embed the tweet: the design of each tweet is similar to the one on Twitter. In order to add fun, we picked the Tinder concept of binary classifications of girls and applied it to the tweets. This approach helped us to design a protocol based on tweets classification which differentiates the user interest and engagement. Firstly, we give an overview of the methodology, explaining the test that we ran and the metrics used. Secondly, we introduce our Twitter dataset, composed of embedded tweets from user timelines. Final, we delve into the process itself.

#### 2.1 Big picture

#### Diagram

In order to measure our users behaviours, we decided to run A/B testing with two different B tests. It allows us to compare our dependent variables which are the number of likes and the time spent on a tweet. To be sure that we only keep in consideration the two dependent variables, a simple graphical design is used. This design is exactly like a PowerPoint document, where the content of each slide is an embedded tweet. The user has to decide for each slide, if he likes or dislikes a tweet by pressing one of two different keys on the keyboard. Based on this

#### Chapter 2. Methodology

design, we create an A/B test with one initial experiment called "Calibration" (test A) and two other ones taking in input the time (test B1) and the numbers of likes (test B2). Because of the unique design, we are going to explain how we select the tweets for the calibration part and the two other tests.

metrics: the time that a user is spending on a tweet, the decision (like / dislike)

#### 2.2 Experiment

#### 2.2.1 Dataset

As mentioned before, we decided to do a binary classification (like / dislike) of the tweets coming from the user's timeline. Because we use tweets from the timeline, it is assumed that users are interested by the content to a certain extent: they follow the writer of the tweet. In order to reduce external factors, we limit the timeline at a group of 10 people who the person follows, called "friends". We select 10 friends randomly who published at least 25 tweets. Thanks to this data, we create a simple timeline that we suppose is similar to the real one. When a user logs in to Twinder, we retrieve in total 250 tweets: 25 tweets coming from 10 different friends. In order to keep the timeline chronological, we select the most recent 25 tweets from each user.

In the motivation chapter, we said in the Figure 1.3 that the content of twitter is standardised with a maximum of 140 characters. However, the content can take several forms, like photos, videos, text and it starts to become a little tricky to differentiate each case. We finally consider them similar to a pure text because the majority of the tweets with images contain text. After having considered the content of the tweets, the next problem that we faced was the layout of each tweet. Indeed, after displaying only the text of the tweets, we realised that the embed layout was something important for the user. It allow him to contextualise the information and link it to twitter. (img difference of embed not).

The methodology of the experiment is based on the dataset assumption that we enumerated previously. The A/B test will be explained, it is composed of the test A (calibration) and the test B1 or B2.

#### 2.2.2 A/B Test

A Test

## 3 Technical Implementation

In this chapter we will see some examples of tables and figures.

#### 3.1 Tables

Let's see how to make a well designed table.

The table 6.1 is a floating table and was obtained with the following code:

```
1 \begin{table}[tb]
2 \caption[A floating table]{A floating table.}
3 \label{tab:example}
4 \centering
5 \begin{tabular}{ccc}
6 \toprule
       name
                & weight & food
8 \midrule
      mouse & 10 g & cheese \\
9
       cat & 1 kg & mice \\
dog & 10 kg & cats \\
t-rex & 10 Mg & dogs \\
10
11
12
13 \bottomrule
14 \end{tabular}
15 \end{table}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget,

Table 3.1: A floating table.

name	weight	food
mouse	10 g	cheese
cat	1 kg	mice
dog	10 kg	cats
t-rex	10 Mg	dogs

consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

```
#authentification procedure
2 def authentification(user):
       instance = UserSocialAuth.objects.filter(user=user).get()
3
       auth = tweepy.OAuthHandler(SOCIAL_AUTH_TWITTER_KEY, SOCIAL_AUTH_TWITTER_
4
         SECRET)
       auth.set_access_token((instance.tokens).get('oauth_token'), (instance.tokens)
5
         .get('oauth_token_secret'))
       return tweepy.API(auth)
1 { // extends 'base.html' //}
2 {% load staticfiles %}
3 {% block main %}
       { % if error %}
4
       problem
5
       { % else %}
6
            { % if user and not user.is_anonymous %}
7
                <div class = "reveal">
8
                     <div class = "slides">
9
                         <section id="1" name="0" value="0">
10
                              Ready!</br>
11
12
                              Press L to start.
13
                         </section>
                     </div>
14
                 </div>
15
16
            { % else %}
17
                 <div class = "reveal">
18
                     <div class = "slides">
19
20
                          <section>
                              \langle h3 \rangle w = 1 c o me \langle /h3 \rangle
21
                              click <a href="{% url 'social:begin' 'twitter' %}?next={{</pre>
22
                                 request.path }}">Here</a> to login to Twitter
23
                         </section>
                     </div>
24
                 </div>
25
            { % end if % }
26
27
28
        { % end if %}
29
```

```
{ % if le_json % }
30
        <script type="text/javascript">
31
32
             var tweets_f = $.parseJSON("{{le_json|escapejs}}");
33
        </script>
        { % else %}
34
        <script type="text/javascript">
35
36
        var tweets_f = '';
        </script>
37
        { % end if %}
38
39
40
   <script type="text/javascript">
41
42
43
         display();
44
         //display tweet after streaming them
45
         function display(){
46
47
            for (i=0;i<tweets_f.length;i++){</pre>
48
                var tweet_id=tweets_f[i].tweet_id;
49
50
                var friend_id=tweets_f[i].friend_id;
                var txt_length=tweets_f[i].tweet_txt;
51
                streaming(tweet_id,friend_id,txt_length.length);
52
53
            }
         }
54
55
        //Stream tweets tks to ajax call
56
57
        function streaming(id,friend,txt_length){
58
                     $.ajax({
                         dataType: "jsonp",
59
                         url: "https://api.twitter.com/1/statuses/oembed.json?id="+id
                           +'&align=center',
                         type: 'GET',
61
62
                              success: function(data,args) {
63
                                  if (data.html){
                                      (".slides").append('<section id="'+id+'" value")
64
                                         ="'+friend+'" name="'+txt_length+'">'+data.html
                                         +'</section>');
                                  }
65
                             },
66
                              error: function(Xhr, textStatus, errorThrown) {
68
                                  alert(Xhr);
                              1.
69
                });
70
71
72
        //add last page
73
        function add_last(){
74
            if ($('section').length=== 51){
75
                $(".slides").append('<section><h3> Thanks {{ user.get_full_name|
76
                   default:user.username }}!</h3>This is the end</section>');
77
            }
        ጉ
78
79
80
   </script>
81
   {% endblock %}
```

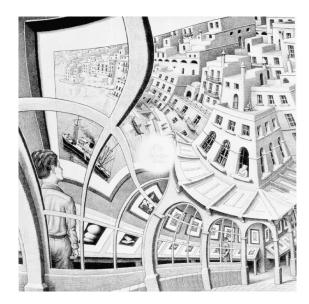


Figure 3.1: A floating figure (the lithograph *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

#### 3.2 Figures

Let's see now how to put one or several images in your text.

The figure 6.1 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \includegraphics[width=0.5\columnwidth]{galleria_stampe}
4 \caption[A floating figure]{A floating figure ... }
5 \label{fig:galleria}
6 \end{figure}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum



Figure 3.2: A floating figure with text typeset in "Utopia Latex", a font provided in the templatefolder for typesetting figures with greek characters. The text has been "outlined" for best compatibility with the repro during the printing.

sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

The figure 6.3 is a floating figure and was obtained with the following code:

```
\begin{figure}[tb]
   \centering
2
   \subfloat[Asia personas duo.]
   {\columnwidth} {\columnwidth} {\columnwidth} \
  \subfloat[Pan ma signo.]
  {\label{fig:ipsum}%
  \includegraphics[width=.45\columnwidth]{ipsum}} \\
  \subfloat[Methodicamente o uno.]
8
9
   {\includegraphics[width=.45\columnwidth]{dolor}} \quad
   \subfloat[Titulo debitas.]
11
   {\includegraphics[width=.45\columnwidth]{sit}}
12 \caption[Tu duo titulo debitas latente]{Tu duo titulo debitas latente.}
13 \label{fig:esempio}
14 \end{figure}
```

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst.

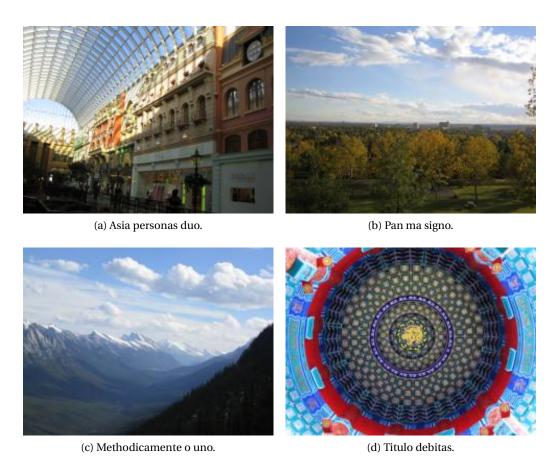


Figure 3.3: Tu duo titulo debitas latente.

Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetuer.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed

nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetuer at, consectetuer sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

## 4 Data acquisition

In this chapter we will see some examples of tables and figures.

#### 4.1 Tables

Let's see how to make a well designed table.

The table 6.1 is a floating table and was obtained with the following code:

```
1 \begin{table}[tb]
2 \caption[A floating table]{A floating table.}
3 \label{tab:example}
4 \centering
5 \begin{tabular}{ccc}
6 \toprule
7
       name
                & weight & food
8 \midrule
      mouse & 10 g & cheese \\
9
       cat & 1 kg & mice \\
dog & 10 kg & cats \\
t-rex & 10 Mg & dogs \\
10
11
12
13 \bottomrule
14 \end{tabular}
15 \end{table}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget,

Table 4.1: A floating table.

name	weight	food
mouse	10 g	cheese
cat	1 kg	mice
dog	10 kg	cats
t-rex	10 Mg	dogs

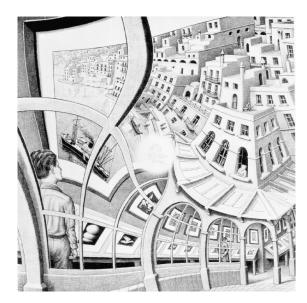


Figure 4.1: A floating figure (the lithograph *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

#### 4.2 Figures

Let's see now how to put one or several images in your text.

The figure 6.1 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \includegraphics[width=0.5\columnwidth]{galleria_stampe}
4 \caption[A floating figure]{A floating figure ... }
5 \label{fig:galleria}
```

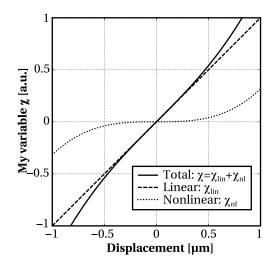


Figure 4.2: A floating figure with text typeset in "Utopia Latex", a font provided in the templatefolder for typesetting figures with greek characters. The text has been "outlined" for best compatibility with the repro during the printing.

#### 6 \end{figure}

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

The figure 6.3 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \subfloat[Asia personas duo.]
4 {\includegraphics[width=.45\columnwidth]{lorem}} \quad
5 \subfloat[Pan ma signo.]
6 {\label{fig:ipsum}%
7 \includegraphics[width=.45\columnwidth]{ipsum}} \\
```

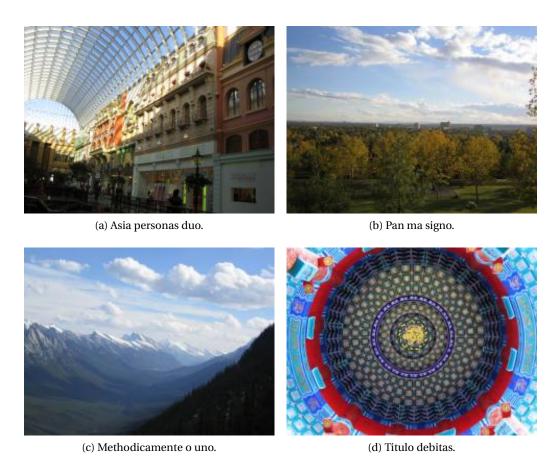


Figure 4.3: Tu duo titulo debitas latente.

```
8 \subfloat[Methodicamente o uno.]
9 {\includegraphics[width=.45\columnwidth]{dolor}} \quad
10 \subfloat[Titulo debitas.]
11 {\includegraphics[width=.45\columnwidth]{sit}}
12 \caption[Tu duo titulo debitas latente]{Tu duo titulo debitas latente.}
13 \label{fig:esempio}
14 \end{figure}
```

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst.

Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetuer.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetuer at, consectetuer sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

# **5** Results

In this chapter we will see some examples of tables and figures.

### 5.1 Tables

Let's see how to make a well designed table.

The table 6.1 is a floating table and was obtained with the following code:

```
\begin{table}[tb]
2 \caption[A floating table]{A floating table.}
3 \label{tab:example}
4 \centering
5 \begin{tabular}{ccc}
6 \toprule
7
       name
                & weight & food
8 \midrule
       mouse & 10 g & cheese \\
9
       cat & 1 kg & mice \\
dog & 10 kg & cats \\
t-rex & 10 Mg & dogs \\
10
11
12
13 \bottomrule
14 \end{tabular}
15 \end{table}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget,

Table 5.1: A floating table.

n	ame	weight	food
m	ouse	10 g	cheese
	cat	1 kg	mice
(	dog	10 kg	cats
t	-rex	10 Mg	dogs

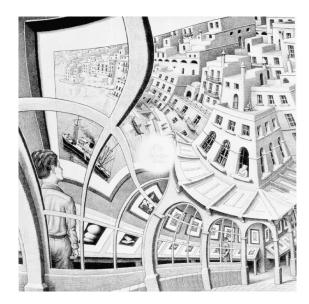


Figure 5.1: A floating figure (the lithograph *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

## 5.2 Figures

Let's see now how to put one or several images in your text.

The figure 6.1 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \includegraphics[width=0.5\columnwidth]{galleria_stampe}
4 \caption[A floating figure]{A floating figure ... }
5 \label{fig:galleria}
```

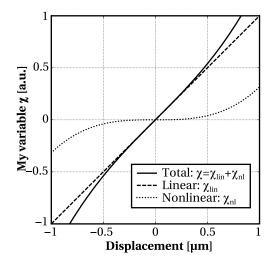


Figure 5.2: A floating figure with text typeset in "Utopia Latex", a font provided in the templatefolder for typesetting figures with greek characters. The text has been "outlined" for best compatibility with the repro during the printing.

#### 6 \end{figure}

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

The figure 6.3 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \subfloat[Asia personas duo.]
4 {\includegraphics[width=.45\columnwidth]{lorem}} \quad
5 \subfloat[Pan ma signo.]
6 {\label{fig:ipsum}%
7 \includegraphics[width=.45\columnwidth]{ipsum}} \\
```

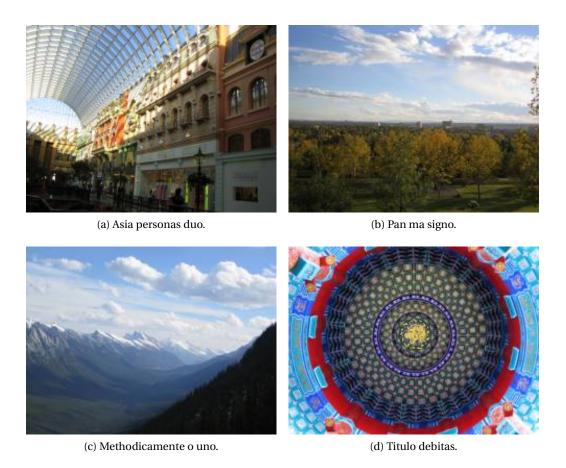


Figure 5.3: Tu duo titulo debitas latente.

```
8 \subfloat[Methodicamente o uno.]
9 {\includegraphics[width=.45\columnwidth]{dolor}} \quad
10 \subfloat[Titulo debitas.]
11 {\includegraphics[width=.45\columnwidth]{sit}}
12 \caption[Tu duo titulo debitas latente]{Tu duo titulo debitas latente.}
13 \label{fig:esempio}
14 \end{figure}
```

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst.

Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetuer.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetuer at, consectetuer sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

# 6 Discussion

In this chapter we will see some examples of tables and figures.

### 6.1 Tables

Let's see how to make a well designed table.

The table 6.1 is a floating table and was obtained with the following code:

```
\begin{table}[tb]
2 \caption[A floating table]{A floating table.}
3 \label{tab:example}
4 \centering
5 \begin{tabular}{ccc}
6 \toprule
7
       name
                & weight & food
8 \midrule
       mouse & 10 g & cheese \\
9
       cat & 1 kg & mice \\
dog & 10 kg & cats \\
t-rex & 10 Mg & dogs \\
10
11
12
13 \bottomrule
14 \end{tabular}
15 \end{table}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget,

Table 6.1: A floating table.

name	weight	food
mouse	10 g	cheese
cat	1 kg	mice
dog	10 kg	cats
t-rex	10 Mg	dogs

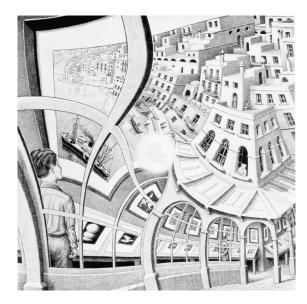


Figure 6.1: A floating figure (the lithograph *Galleria di stampe*, of M. Escher, got from http://www.mcescher.com/).

consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

## 6.2 Figures

Let's see now how to put one or several images in your text.

The figure 6.1 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \includegraphics[width=0.5\columnwidth]{galleria_stampe}
4 \caption[A floating figure]{A floating figure ... }
5 \label{fig:galleria}
```

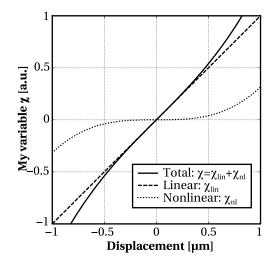


Figure 6.2: A floating figure with text typeset in "Utopia Latex", a font provided in the templatefolder for typesetting figures with greek characters. The text has been "outlined" for best compatibility with the repro during the printing.

#### 6 \end{figure}

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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The figure 6.3 is a floating figure and was obtained with the following code:

```
1 \begin{figure}[tb]
2 \centering
3 \subfloat[Asia personas duo.]
4 {\includegraphics[width=.45\columnwidth]{lorem}} \quad
5 \subfloat[Pan ma signo.]
6 {\label{fig:ipsum}%
7 \includegraphics[width=.45\columnwidth]{ipsum}} \\
```

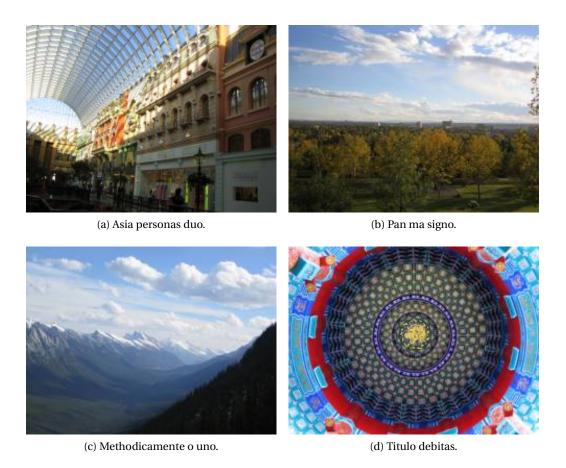


Figure 6.3: Tu duo titulo debitas latente.

```
8 \subfloat[Methodicamente o uno.]
9 {\includegraphics[width=.45\columnwidth]{dolor}} \quad
10 \subfloat[Titulo debitas.]
11 {\includegraphics[width=.45\columnwidth]{sit}}
12 \caption[Tu duo titulo debitas latente]{Tu duo titulo debitas latente.}
13 \label{fig:esempio}
14 \end{figure}
```

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst.

Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetuer.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

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# A An appendix

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### Personal details:

Name : Mr. Sample CV Address : Samplestreet

70

6005 Luzern Switzerland

Date of Birth: 2nd of October 1981

Nationality: Swiss

Legally work : legally work in EU
Marital status : with partner
Children : none

Languages: Chinese/Mandarin, English, French, German

Education level: Bachelors degree

Hospitality work 3-5 years

experience :

Special experience : Europe work experience

Date of availability : September 2009

Current location: Africa

Travelling Status : will be travelling single status

Telephone: 0041 41 370 6759 Email address: jeff@h-g-r.com

Position(s) sought : Permanent position for graduates
Department(s) sought : Food & Beverage Bar/Sommelier

### Personal profile:

As a Bachelor of Business Administration and after obtaining first relevant international work experience within the hospitality industry, I am now ready to take on new responsibilities to further my professional career. My key strengths include strong analytical and logical skills, an eye for detail, communication and interpersonal skills.

I enjoy working in a team and help others progress. At the same time I work well independently. As a highly motivated and driven individual I strive on taking up challenges.

### Interests:

Travelling Foreign Cultures Photography Sports

### **Educational qualifications:**

Oct 99 - Feb 02 Higher Diploma (Hotel Management)

Swiss Hotelmanagement School, SHL

### **Employment history:**

Mar 04 - Ongoing Assistant Manager (Rooms Division/Food & Beverage)

Hotel Atlantic Kempinski Hamburg www.kempinski.com 5 star business hotel, part of Leading Hotels of the World 412 guest rooms, large function facilities, 3

food & beverage outlets

Optimization of bar procedures, reinforcing SOPs

Developing & implementing promotions Responsible for day-to-day operations

Optimization and streamlining of housekeeping and laundry procedures

Implementation of new SOPs

Analyzing monthly reports for rooms division performance and sub departments

Mar 03 - Mar 04 Management Trainee

Hospitality Graduate Recruitment www.h-g-r.com Leading company for

placements within the Hospitality industry.

Traineeship covering all aspects of an online recruitment agency.

Mar 02 - Mar 03 Management Trainee (Rooms Division)

Hyatt Regency Xian, China www.hyatt.com 5 star business hotel 404 guest rooms,

4 food & beverage outlets

Traineeship covering all rooms division departments on operational as well as

supervisory level.

### Training courses attended:

Mar 02 - Ongoing OpenOffice - IT Courses

May 01 - Jan 03 Language Course - Chinese

#### References:

Hyatt Regency Xian

Patrick Sawiri, Phone: 86 22 2330 7654

Hospitality Graduate Recruitment Jeff Ross, Phone: 41 41 370 99 88