FABO ACADEMY X

BUILDING A DOCUMENTATION WEBSITE

BASIC STRUCTURE OF A WEBSITE

ESSENTIAL STRUCTURE
is the standard markup* language for creating Web pages.

PAGE DESIGN
describes how HTML elements are to be displayed on screen

PAGE BEHAVIOR
is a language used to change the behavior of HTML Content

*A language used to write a document in a way that is syntactically distinguishable from the text.

HTML

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page

HTML

Example Page

CODE

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

SCREEN

http://www.w3schools.com/

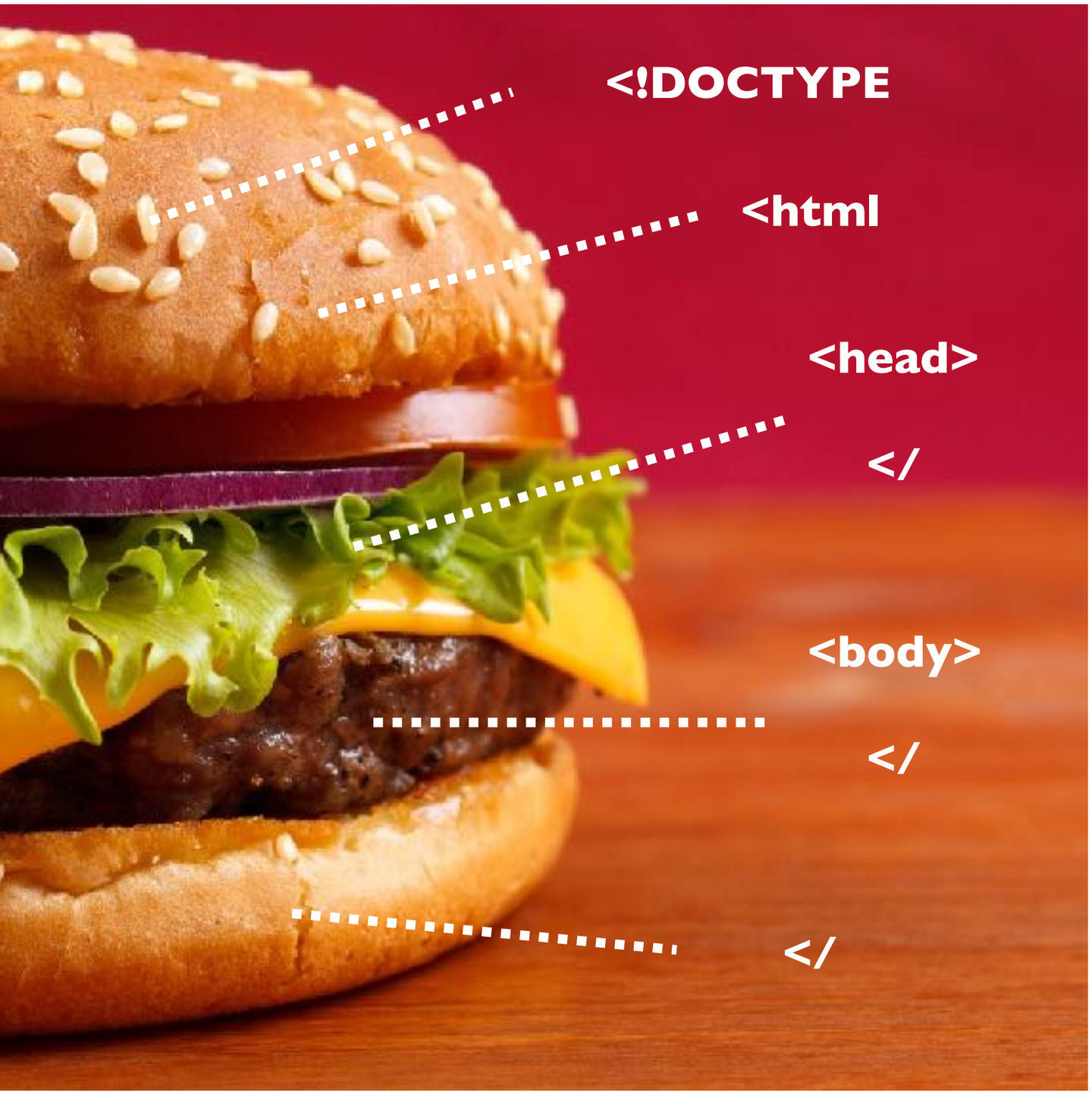
HTML

- Headings <h1>Big Title</h1> ... <h6>Small Title</h6>
- Paragraph Normal Text
- Lists first row...
next row
- Links This is a link
- Image <img src="image.jpg" width="104" height="142">
- Divs Division or section of the page

HTML

Page Structure

```
<html>

  <head>

    <title>Page title</title>

  </head>

  <body>

    <h1>This is a heading</h1>

    <p>This is a paragraph.</p>

    <p>This is another paragraph.</p>

  </body>

</html>
```



BURGER METAFORE

<html> </html>
(two picese of bread)

<head> </head>
Head: contains the ingredient list: mayonese, tomato, onions, and other special ingredients that add taste and define how it will look.

<body> </body>
Body: the meat of the sandwich and all the contents that will be visible on the page.

CSS

- **CSS stands for Cascading Style Sheets**
- **CSS describes how HTML elements are to be displayed on screen, paper, or in other media**
- **CSS saves a lot of work. It can control the layout of multiple web pages all at once**
- **External stylesheets are stored in CSS files**

CSS SOLVED A BIG PROBLEM

HTML was **never** intended to contain tags for formatting a web page! HTML was created to describe the content of a web page.

When tags like <font>, and color attributes were added to the HTML, it started a **nightmare** for web developers. Development of large websites, where fonts and color information were added to every single page, became a long and expensive process.

To solve this problem, the World Wide Web Consortium (W3C) created CSS. CSS removed the style formatting from the HTML page! **CSS Saves a Lot of Work!**

The style definitions are normally saved in **external .css files**.
With an external stylesheet file, you can change the look of an entire website by changing just one file!

3 WAYS OF USING CSS

- **Inline:** using a style= attribute for single HTML elements inside <body>

- **Internal:** using a <style> element in the HTML <head> section

- **External:** using one or more external CSS files

CSS
INLINE

CODE

```
<!DOCTYPE html>
<html>
<body>

<h1 style="color:blue;margin-
left:30px;">This is a heading.
</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

SCREEN

CSS
INTERNAL

CODE

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
    background-color: linen;
}
h1 {
    color: maroon;
    margin-left: 40px;
}
</style>
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

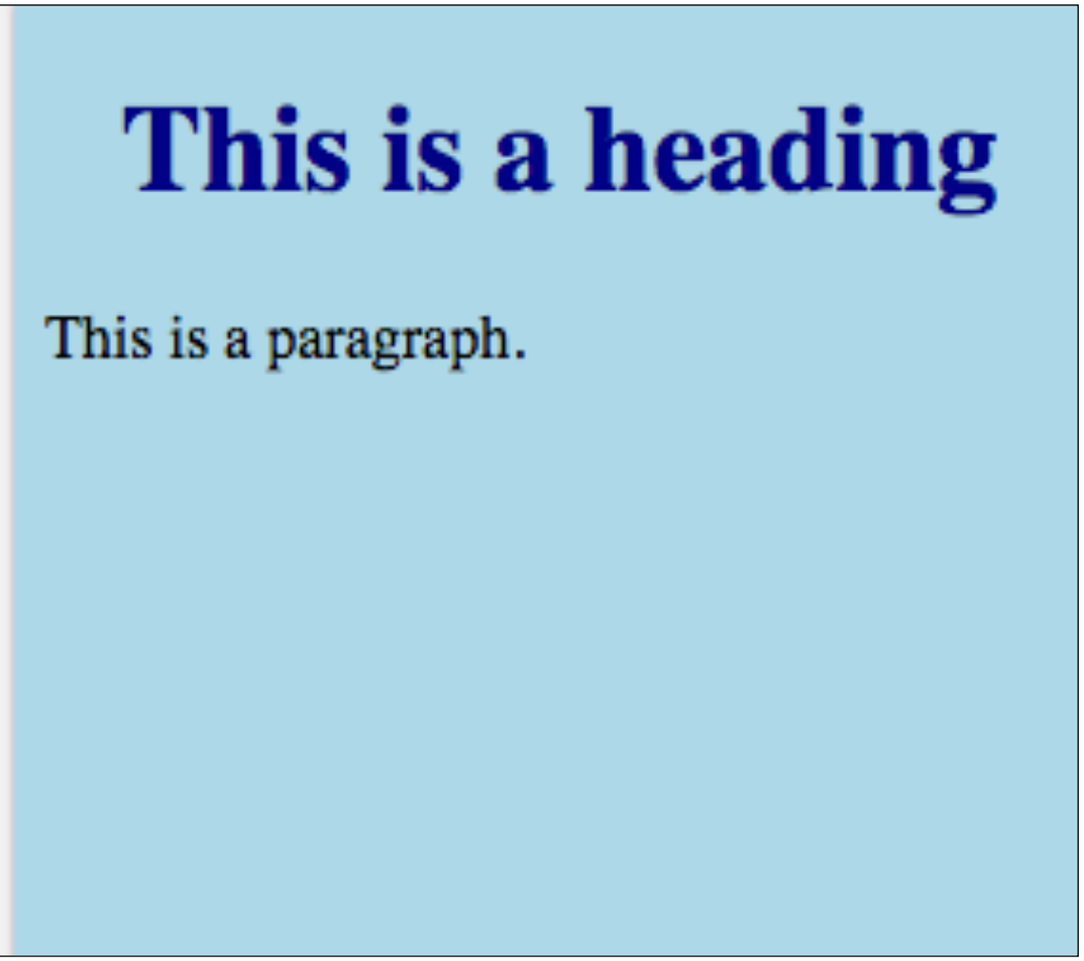
SCREEN

CSS
EXTERNAL

CODE

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet"
type="text/css"
href="mystyle.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

SCREEN

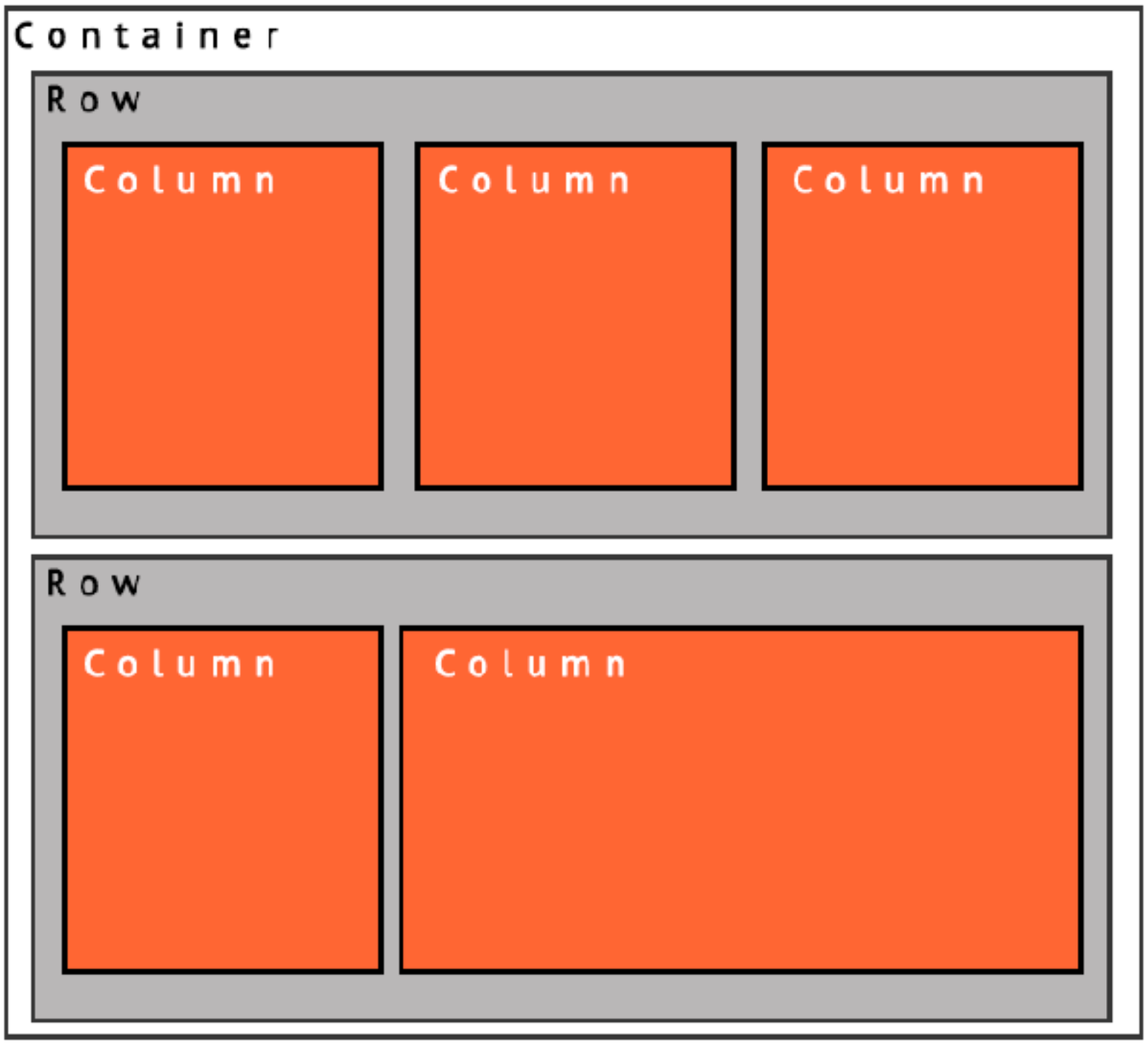


BOOTSTRAP

Bootstrap is a free front-end framework for faster and easier web development

Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins

Bootstrap also gives you the ability to easily create responsive designs



GRID SYSTEM

12 Column grid

Access through CSS classes

Container, Rows, Columns

USING BOOTSTRAP, BUILD A SIMPLE WEB PAGE FOR DOCUMENTING YOUR PROGRESS IN FABO ACADEMY X

Exercise 1

MAKING A DOCUMENTATION WEBSITE

Use html language for the content and css language for the style (colors, fonts, shapes, etc).

http://www.w3schools.com/html/default.asp
http://www.w3schools.com/css/default.asp
http://www.w3schools.com/bootstrap/default.asp

Basic structure of a documentation website:

- Homepage, with a navigation menu, an introduction to yourself, your photo and what you will make during the three weeks of Fabo Academy X.
- Class pages, create one page for each class, use each page to describe the work you did, with pictures and descriptions.
- You can use Bootstrap as a template to start with. To edit the html and the css file, you will use an advanced text edit software such as Brackets.

Creation life

Creation is a love of life, it can turn your ideas into reality that affect more people's lives. Being an innovator in life is a happy thing. I writing tranditional Chinese paintings with brush and making some interesting gadgets. In order to be able to learn more advanced production tools and methods, I come to Fablab O Shanghai.

Traditional Creation

The use of Chinese paper and mineral pigments to make Painting Box,Stained cover and small cover can make gorgeous colors and levels. The use of fablab equipment can produce a more retro works.

View more »

Art Education

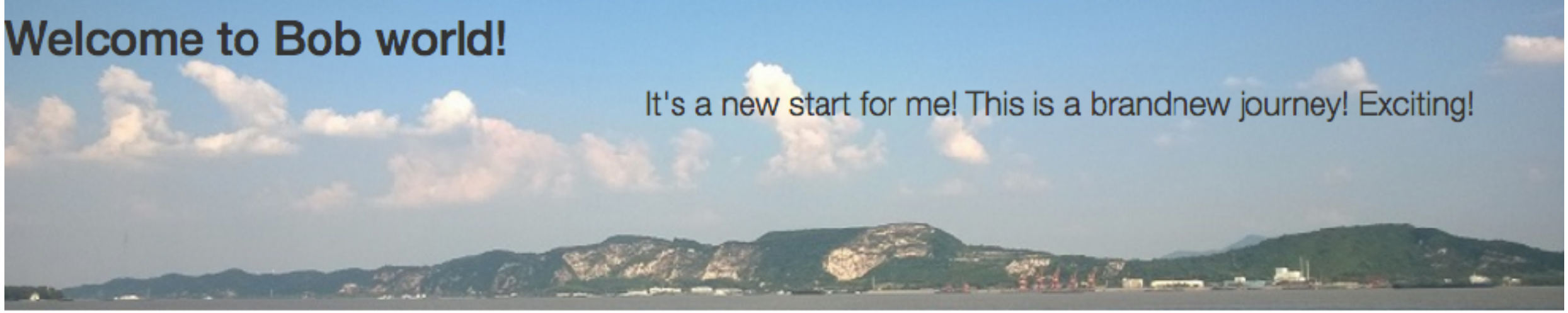
The lab complete works what combination of art and electronic technology. Share creative process, so that more people can receive art influence,enhance the ability of art design.

View more »

Working Project

The design and manufacture of an intelligent small fish, it is beautiful and can spit out all kinds of color bag.And can automatically open the lid on the head.The children all like it very much.

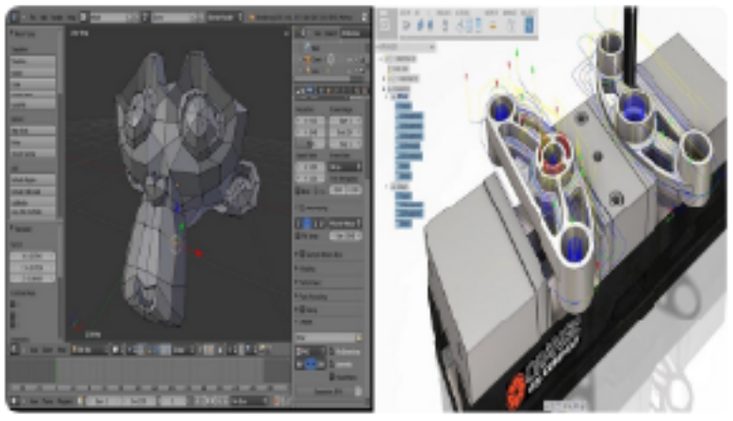
View more »



Course

Week1

7.18 3D Software

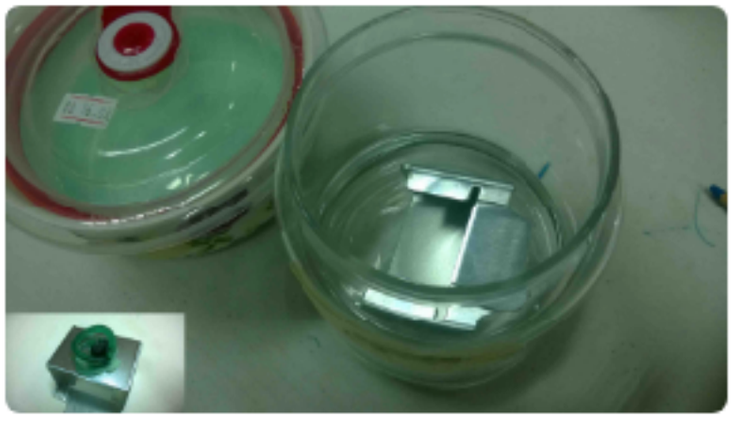


7.19 3D Printing

7.18 3D Printing FDM

7.20 Subtractive Manufacturing

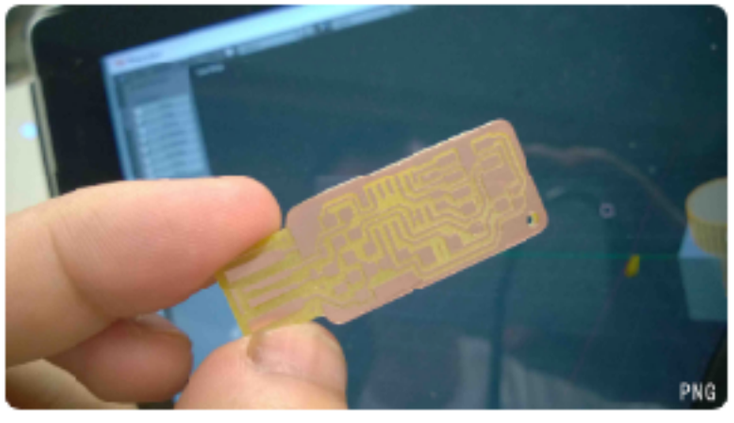
7.18 3D Printing SLA



7.20 Milling circuit boards

7.20 ISP

7.22 Electronic Production



01. Build a Website
02. 2D 3D Design
03. Cutting Machine
04. 3D Scan
05. 3D Printing
06. CNC
07. Electronic Production
08. Embedded programming

Welco aker Space of Joe

Hello,I'Joe.I c icipate in the training of FabLab in Shanghai.First,I have to thank my teacher,Saverio Si se the equipments,such as laser cutting machine,high precision 3D printing,3D scanning instrument,CNC digital machine tools,etc,and the method of thinking in the Fablab Shanghai.The Fablab is an open shared space,it's open to people in the society to share ideas to people around the world.So I will show you what I have learn in the exercises of title column.As long as you have originality and dream,the Fablab will give you a stage to show your creative.

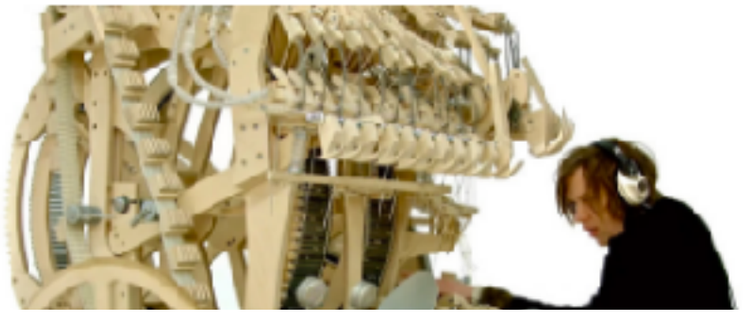
Learning Skills

In this part,you can learn how to design and make a product,but also learn programming to control your products.It's a infinite space where you should be here.

/faboshanghai.github.io/joe/exercise03.html

Share Products

In this part,you can learn more about how to make a products.The tutorials include the source files of design,Parts list,schematic diagram and costs.



Space Carnival

Laboratory is rich in daily activities.It has Open Day, training courses and large-scale carnival.You will grow up every day, and have a wonderful life.