Piscine Discovery

Administration guide

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Summary:
Guide for the administrators of the Discovery Piscine.

Version: 2

Contents

Chapter I

Overview

Cells overview:

- **Cell 0 shell**: Discover the shell.

- **Cell 1 Web**: Discover web development with basic tags.

- **Cell 2 Web**: Discover web development with CSS.

- **Cell 3 Web**: Discover web development with Javascript.

- **Rush**: Put into practice the concepts learned during the week.

Chapter II

General guidelines

Below is the list of the exercises which are mandatory for each day:

- **Cell 0 shell**: Exercises 00, 01.

- **Cell 1 Web**: Exercises 00, 01, 02, 03, 04, 05.

- **Cell 2 Web**: Exercise 00.

- **Cell 3 Web**: Exercises 00, 01.

- **Rush**.

Chapter III

Typical day

Hours	Activities
8h00 - 10h00	Project of the day
10h00 - 10h30	Exchange between supervisors and students in a group format
10h30 - 12h00	Project of the day
12h00 - 13h00	Lunch break
13h00 - 15h00	Project of the day
15h00 - 16h00	Mandatory evaluation with the help of the supervisors
16h00 - 18h00	Project of the day

Ideally, the students of the campus could help the Discovery Piscine' students.

Please give the Discovery Piscine's students some advice about using a text editor such as Vim.

Chapter IV

First day

Hours	Activities
8h00 - 9h00	Presentation of the Piscine in group format
9h00 - 10h00	Project of the day
10h00 - 10h30	Exchange between supervisors and students in a group format
10h30 - 12h00	Project of the day
12h00 - 13h00	Lunch break
13h00 - 15h00	Project of the day
15h00 - 16h00	Mandatory evaluation with the help of the supervisors
16h00 - 18h00	Project of the day

The Discovery session should begin with a group presentation including an explanation of how the Discovery Piscine works.

Introducing the staff members to the students is optional but highly recommended.
Explaining the curriculum of the Discovery Piscine days is expected.
During the first days, do not hesitate to help the students who struggle with the exercises.

The daily moment of exchange allows the students to seek for help, between them in priority. A supervisor will be there to facilitate the exchange.

Chapter V

Last day

Hours	Activities
9h00 - 9h30	Presentation of the Rush
9h30 - 10h30	Project of the day
10h30 - 11h00	Exchange between supervisors and students in a group format
11h00 - 12h00	Rush
12h00 - 13h00	Lunch break
13h00 - 15h00	Rush
15h00 - 16h00	Mandatory evaluation with the help of the supervisors
16h00 - 17h00	End of the Piscine

This last day should be the Discovery Piscine closing day.

Students will be able to continue past days. However, it will be important to make it clear that this day is dedicated to doing the group Rush.
A group presentation is expected at the beginning of the day.
It will be important to explain the purpose of the Rush to the students. Also, do not hesitate to help the students during this day.
The Rush is intended to be done as a group, but technically can be done on their own too.
You will have to be careful not to leave any student behind.

The last moment to discuss the whole Discovery Piscine will be at the end of the day. We can imagine some animations, like the presentation of the best Rush to other students, and so forth.
You should not hesitate to listen and take note of the things that worked or didn't work, in order to improve the next Discovery Piscines.

Chapter VI

Cell 0: Shell

	Exercise 00
	The basic
Turn-in directory : *ex*00/	
Files to turn in : `None`	
Allowed functions : `None`	

Solution:

```
> mkdir -p ~/discovery\_piscine/cell00/ex00
```

	Exercise 01
	Z
Turn-in directory : *ex*01/	
Files to turn in : `z`	
Allowed functions : `None`	

Solution:

```
> echo "Z" > ~/discovery\_piscine/cell00/ex01/z
```

	Exercise 02
	midLS

Turn-in directory : *ex*02/
Files to turn in : `midLS`
Allowed functions : `None`

Solution:

```
> echo 'ls --format=across -p --format=commas' > ~/discovery\_piscine/cell00/ex02/midLS
```

	Exercise 03
	Count_files

Turn-in directory : *ex*03/
Files to turn in : `count_files.sh`
Allowed functions : `None`

Solution:

```
> echo 'ls -la | tail -n +4 | wc -l' > ~/discovery\_piscine/cell00/ex03/count\_files.sh
```

	Exercise 04
	Argv

Turn-in directory : *ex*04/
Files to turn in : `argv.sh`
Allowed functions : `None`

Solution:

```
> cat ~/discovery\_piscine/cell00/ex04/argv.sh
#!/bin/bash
if [ "$#" -eq "0" ]; then
  echo "No arguments supplied"
else
  for file in "$@"; do echo $file; done
fi
```

	Exercise 05
	Build

Turn-in directory : *ex*05/
Files to turn in : `build.sh`
Allowed functions : `None`

Solution:

```
> cat ~/discovery\_piscine/cell00/ex05/build.sh
#!/bin/bash
dir=$(pwd)
if [ "$#" -eq "0" ]; then
  echo "No arguments supplied"
else
  for file in "$@"; do params+=( "$dir/ex$file" ); done
  mkdir -p "${params[@]}"
fi
```

Chapter VII

Cell 1: Web basics

	Exercise 00
	Hello World!
Turn-in directory : *ex00/*	
Files to turn in : `helloworld.html`	
Allowed functions : `None`	

Solution:

```
> cat ~/discovery\_piscine/cell01/ex00/helloworld.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title></title>
</head>
<body>
  Hello World
</body>
</html>
```

	Exercise 01
	Titles
Turn-in directory : *ex01/*	
Files to turn in : `piscineweb.html`	
Allowed functions : `All`	

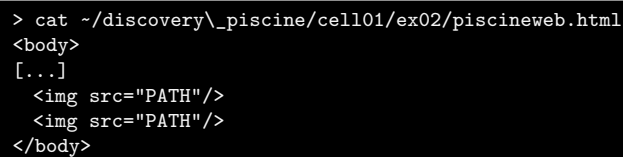Solution:

```
> cat ~/discovery\_piscine/cell01/ex01/piscineweb.html
[...]
<body>
  <h1 style="text-align: center;"><strong>Piscine Web</strong></h1>
</body>
[...]
```

	Exercise 02

The best lolcat

Turn-in directory : *ex*02/
Files to turn in : `piscineweb.html`
Allowed functions : `All`

Add the previous page in the body by modifying the PATH:

```
> cat ~/discovery\_piscine/cell01/ex02/piscineweb.html
<body>
[...]
  <img src="PATH"/>
  <img src="PATH"/>
</body>
```
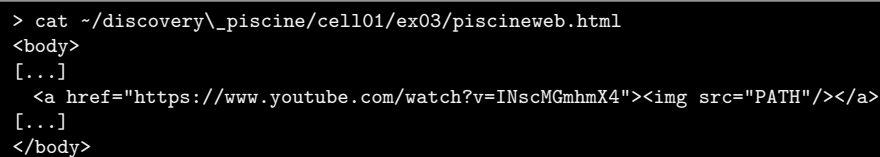
	Exercise 03

We go for a walk

Turn-in directory : *ex*03/
Files to turn in : `piscineweb.html`
Allowed functions : `All`

Add to the previous page in the <a> tags on the first image:

```
> cat ~/discovery\_piscine/cell01/ex03/piscineweb.html
<body>
[...]
  <a href="https://www.youtube.com/watch?v=INscMGmhmX4"><img src="PATH"/></a>
[...]
</body>
```

	Exercise 04
	B.A.BA or home

Turn-in directory : *ex*04/
Files to turn in : `baba.html`
Allowed functions : `None`

Solution:

```
> cat ~/discovery\_piscine/cell01/ex04/baba.html
 <html>
 <head>
   <title>B.A.BA</title>
   <meta charset="utf-8">
 </head>
 <body style="background-color:pink">
   <h1 style="color:white;margin-left:50%;">
     Ceci est un accent &eacute;
   </h1>
   <img src="PATH" alt="TITLE" style="margin-left:52%">
   <img src="PATH" alt="TITLE">
   <div style="margin-left:52%; height:50px; width=50px">
     <a href="http://www.amazon.fr" style="float:left;">TITLE</a>
     <a href="http://www.ebay.fr" style="margin-left:50px">TITLE</a>
   </div>
   <br>
   <hr>
   <div style="float:right">
     &copy; wil 2021
   </div>
 </body>
 </html>
```

	Exercise 05
	Tab

Turn-in directory : *ex*05/
Files to turn in : `tab.html`
Allowed functions : `None`

Solution:

```
> cat ~/discovery\_piscine/cell01/ex05/tab.html
[...]
 <table>
   <tr>
      <td style="background-color: #C3C77F;">First cell</td>
      <td style="background-color: #F9C4AF;">Second cell</td>
   </tr>
 </table>
[...]
```

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	Exercise 06

Responsive

Turn-in directory : *ex*06/
Files to turn in : `responsive.html`
Allowed functions : `n/a`

The solution is to simply add this style:

```
> cat ~/discovery\_piscine/cell01/ex06/responsive.html
<style>
[...]
table { width: 100%; height: 100%;}
[...]
</style>
```

Chapter VIII

Cell 2: Web CSS

	Exercise 00
	Responsive improved
Turn-in directory : *ex*00/	
Files to turn in : `responsive.html, responsive.css`	
Allowed functions : `None`	

Simple split using this style:

```
> cat ~/discovery\_piscine/cell02/ex00/responsive.css
[...]
table { width: 100%; height: 100%;}
[...]
</style>
> cat ~/discovery\_piscine/cell02/ex00/responsive.html | grep link
<link rel="stylesheet" href="responsive.css" />
```

	Exercise 01
	Sandwich SNCF
Turn-in directory : *ex*01/	
Files to turn in : `menu.html, menu.css`	
Allowed functions : `None`	

Solution in resources.

	Exercise 02
	Parallax

Turn-in directory : *ex02/*
Files to turn in : `parallax.html parallax.css`
Allowed functions : `None`

Solution in resources.

	Exercise 03
	User profile card

Turn-in directory : *ex03/*
Files to turn in : `card.html, card.css`
Allowed functions : `None`

Solution in resources.

Chapter IX

Cell 3: Web JS

	Exercise 00
	Change background

Turn-in directory : *ex00/*
Files to turn in : `background.html, background.css, *`
Allowed functions : `HTML, CSS`

```
> cat ~/discovery\_piscine/cell03/ex00/background.html
[...]
<button onclick="document.body.style.backgroundColor = '#'+
(Math.floor(Math.random()*999))">Click me!</button>
[...]
```

	Exercise 01
	Explode this balloon

Turn-in directory : *ex01/*
Files to turn in : `balloon.html`
Allowed functions : `HTML, CSS, JS`

Solution in resources.

	Exercise 02
	Its over 9000
Turn-in directory : *ex*02/	
Files to turn in : `calc.html`	
Allowed functions : HTML, CSS, JS	

Solution in resources.

	Exercise 03
	To do or not to do
Turn-in directory : *ex*03/	
Files to turn in : `index.html, todo.js`	
Allowed functions : HTML, CSS, JS	

Solution in resources.

	Exercise 04
	If jQuery, I'm going too
Turn-in directory : *ex*04/	
Files to turn in : `Same files as the respective exercises`	
Allowed functions : HTML, CSS, jQuery	

Solution in resources.