

學 期 貳

term two

(1331) (2601) (6310)

Exhibition Navigation with iBeacon

lyu1403.

映 像 使 用 書 體 MS P 明 朝

Typeface used MS PMincho

NG Ping Him

ID #1155029312

Slide number two

YEUNG Tak Wing

ID #1155009050

Slide number three

Term
1

Previous

▲
2015
IBEA CON

Term 1

case study



I B E A C O N

Read reviews & see what
other shoppers are saying.

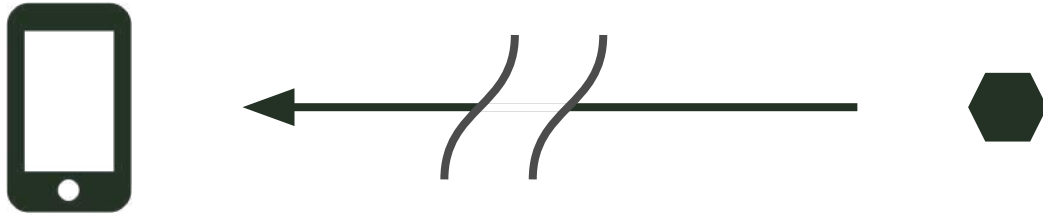






Term 1

experiment on signal strength



I B E A C O N



signals

signals

1 metre

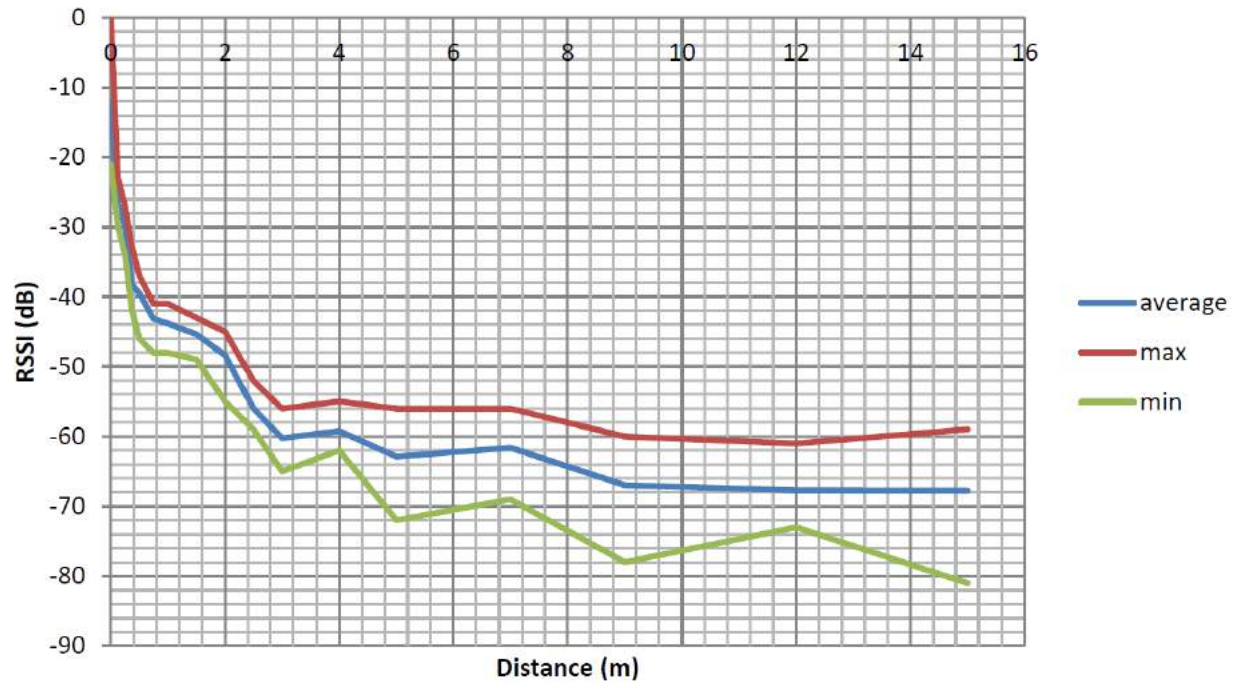
signals

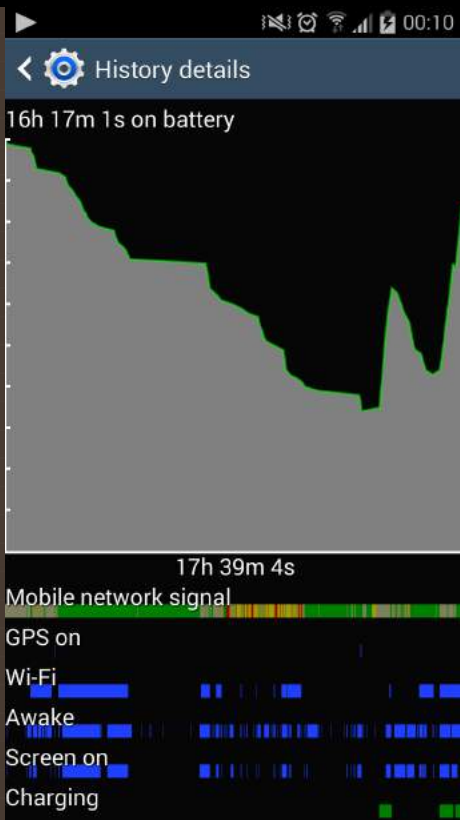
signals

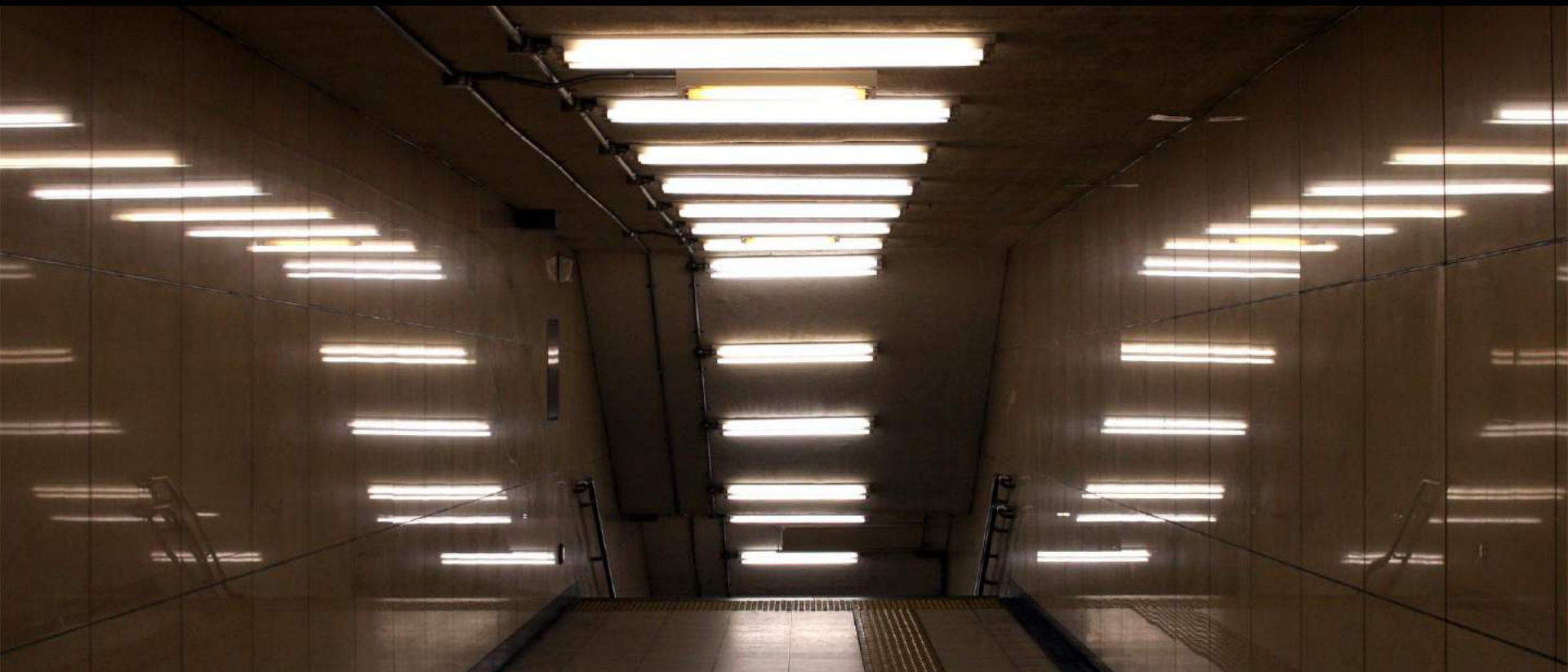
Beacon



Range of RSSI against Distance of Beacon #1











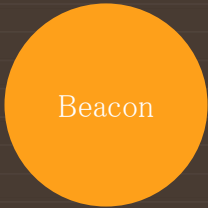
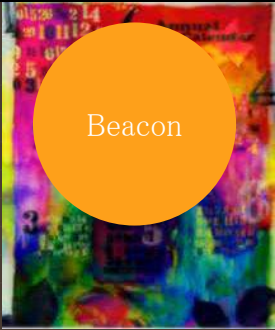


Term 1

beacon deployment scheme



I B E A C O N





Beacon

Beacon

Beacon

Beacon

Beacon

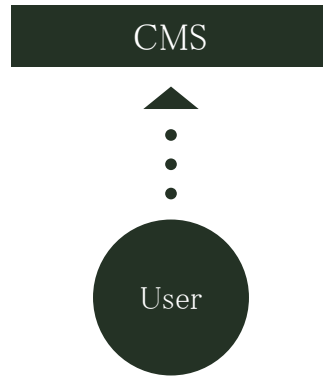
Beacon

Beacon

Beacon

Term 1

single user cms



I B E A C O N

[Generate](#)[Add](#)[Edit](#)[Remove](#)[Preview](#)

Beacon info

All beacons						
ID	UUID	MAJOR	MINOR	LONGITUDE	LATITUDE	DESCRIPTION
1	B9407F30F5F846EAF932556B57FE6D	3544	5566	114.2673102	22.4179245	SHB
2	B9407F30F5F846EAF932556B57FE6D	2	102	115.9 E	23.16.3 N	Hello World
3	B9407F30F5F846EAF932556B57FE6D	3	103	116.9 E	23.17.2 N	
5	B9407F30F5F846EAF932556B57FE6D	5	105	118.9 E	24.17.2 N	
8	B9407F30F5F846EAF932556B57FE6D	8	108	121.9 E	25.16.3 N	Some more
10		10	110	123.9 E	27.16.3 N	
11		11	111	124.9 E	27.17.2 N	
15		15	115	126.9 E	29.17.2 N	
17		17	117	130.9 E	30.17.2 N	
18		18	118	131.9 E	31.16.3 N	
19		19	119	132.9 E	31.17.2 N	
20		20	120	133.9 E	32.16.3 N	
21		21	121	134.9 E	32.17.2 N	
22		22	122	135.9 E	33.16.3 N	
23		23	123	136.9 E	33.17.2 N	Last one!
24		24	124	137.9 E	34.16.3 N	
25		25	125	138.9 E	34.17.2 N	
137		1234	5678	hflg	hfltar	hello world
139		1020	3040	long	lat	Was ist das?
172	B9407F30F5F846EAF932556B57FE6D	5555	6666	-74.0442061	49.6995696	english 中文 中文 中文 pyconw@123456
173	B9407F30F5F846EAF932556B57FE6D	6666	7777	11.582154	48.152359	<script-alert(1)></script>
186	E2C56CB8DFFB48C8B68DDF5A71096E0	1	2	2.25	3	flag
187	E2C56CB8DFFB48C8B68DDF5A71096E0	1	2	2.25	3	MATSUBO retract
188	E2C56CB8DFFB48C8B68DDF5A71096E1	4895	65535	1	1	EVEREADY
189	E2C56CB8DFFB48C8B68DDF5A71096E1	1	1	3.5	1	extend
191	B9407F30F5F846EAF932556B57FE6D	7776	8887	lonna	latna	des
194	inputunk	1212	3434	lo	li	des
196	uauit again	1	3	l	ll	de
198	E2C56CB8DFFB48C8B68DDF5A71096E0	1	3			

[Dashboard](#)[Add](#)[Edit](#)[Remove](#)[Preview](#)

Edit a beacon

OWNER

ID

UUID

MAJOR

MINOR

LATITUDE

LONGITUDE

DESCRIPTION

PUBLIC DESCRIPTION

"placeholder="optional">

PUBLIC TITLE

PUBLIC SUBTITLE

[EDIT](#)[DELETE](#)[CANCEL](#)

Term 1

api



I B E A C O N

json


```
{"status": "OK", "data": {"latitude": "22.4179243", "longitude": "114.2073102"}}
```

cross-platform

supported by many languages

RADAR REST API DOCUMENTATION

Important notes

GET notes

GET API key

Methods

GET getDescription

GET getLocationById

GET getLocationByUuidMajorMinor

GET getQuota

GET setDescription

GET setLocation

About

GET ourDetails

POST comments

Important notes

GET notes

HTTP request method

Unless specified, all API calls use **GET**.

Redirection to HTTPS

The API automatically redirects you to the encrypted HTTPS channel if you are using the unencrypted HTTP.

Return type

Unless specified, all API calls return **JSON** objects.

Return format

The format of the returned data is similar to the JSON format specified by JSend.
Please read [JSend's page](#) for details.

Format

```
{"status":"status_of_call","data":{"returned_data"}}
```

Example

```
{"status":"OK","data":{"latitude":"22.4176249","longitude":"114.2973102"}}
```

GET API key

Request an API key

New Use this demo key: 97d9e7b3f06ef1234e15611ebb66f3eb

Methods

GET getDescription

Description

Returns the description of a beacon.

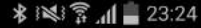
Parameters:

Term 1

android application for exhibition



I B E A C O N

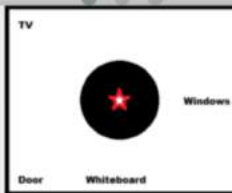


23:24



Beacon Details

The Chung Chi College
Elisabeth Luce Moore
Library



Term
2

This term

▲
2015
IBEA CON

Android

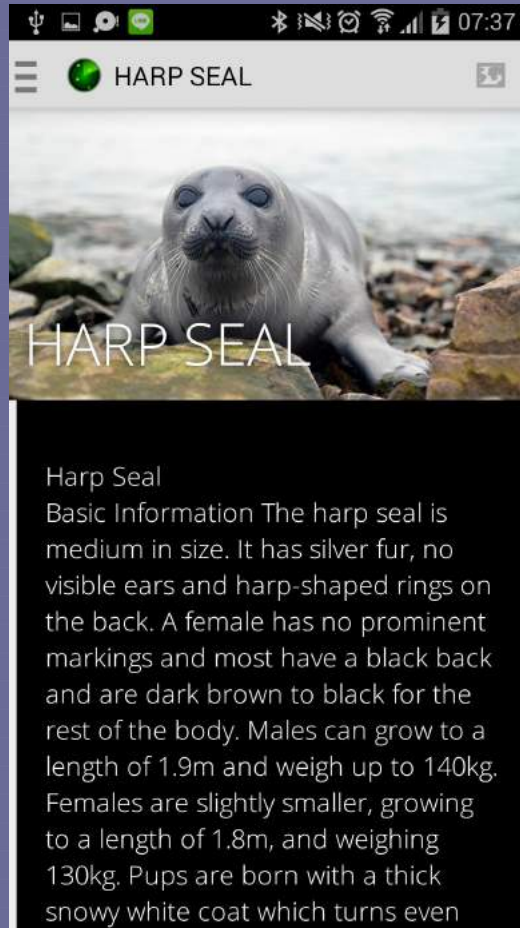
Slide number thirty two

application for visitors

Application for visitors

Complete re-design and implementation

Content



Settings

Settings

Auto Play Audio

Start playing audio
automatically



Language

Select preferred language for item details

Multilingual content

English

正體中文



Harp Seal

Basic Information The harp seal is medium in size. It has silver fur, no visible ears and harp-shaped rings on the back. A female has no prominent markings and most have a black back and are dark brown to black for the rest of the body. Males can grow to a length of 1.9m and weigh up to 140kg. Females are slightly smaller, growing to a length of 1.8m, and weighing 130kg. Pups are born with a thick snowy white coat which turns even

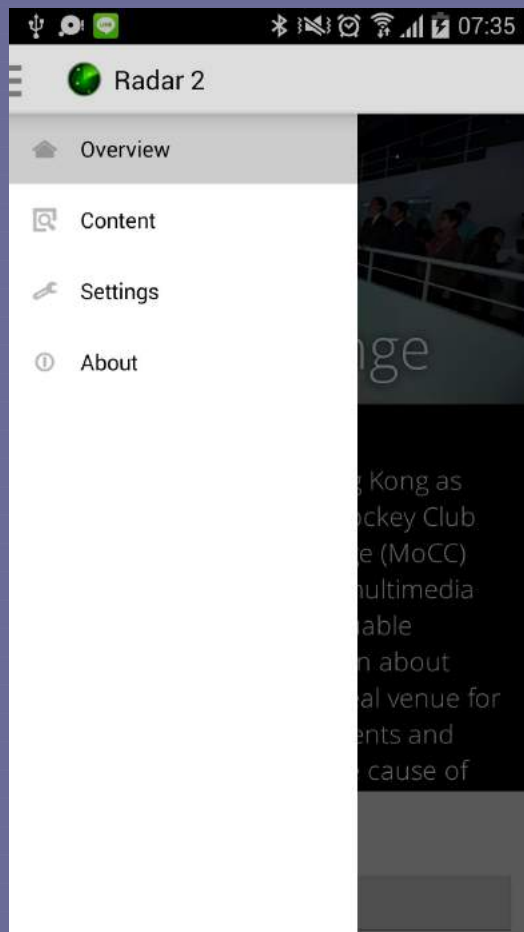


豎琴海豹

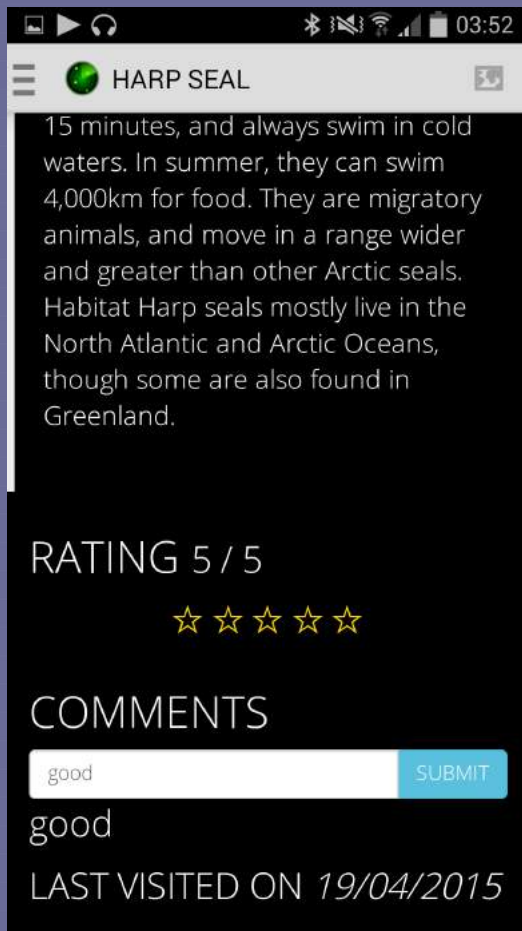
基本資料 豎琴海豹是中型的無耳海豹。銀色毛皮，背上有豎琴形環紋。雌性的環紋較不明顯。背部多為黑色，其他身體部位淺至深褐色，深至黑色。雄性身長可達1.9米，體重可達140公斤；雌性體型略小，身長可達1.8米，體重可達130公斤。豎琴海豹幼崽出生時毛皮厚實雪白，出生後兩周內會變得更白。但兩周後，這層毛皮會開始脫落，露出銀灰色和黑色的毛皮。

其他特徵 豎琴海豹能在冰上快速移動，亦是游泳健將。牠們的前肢腳蹼緊貼身體，後肢腳蹼則緊縮在一起，藉以減少體表面積。

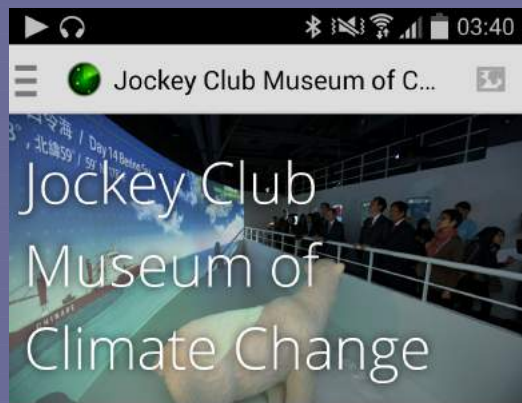
Intuitive navigation



Rating and comments



Exhibition overview

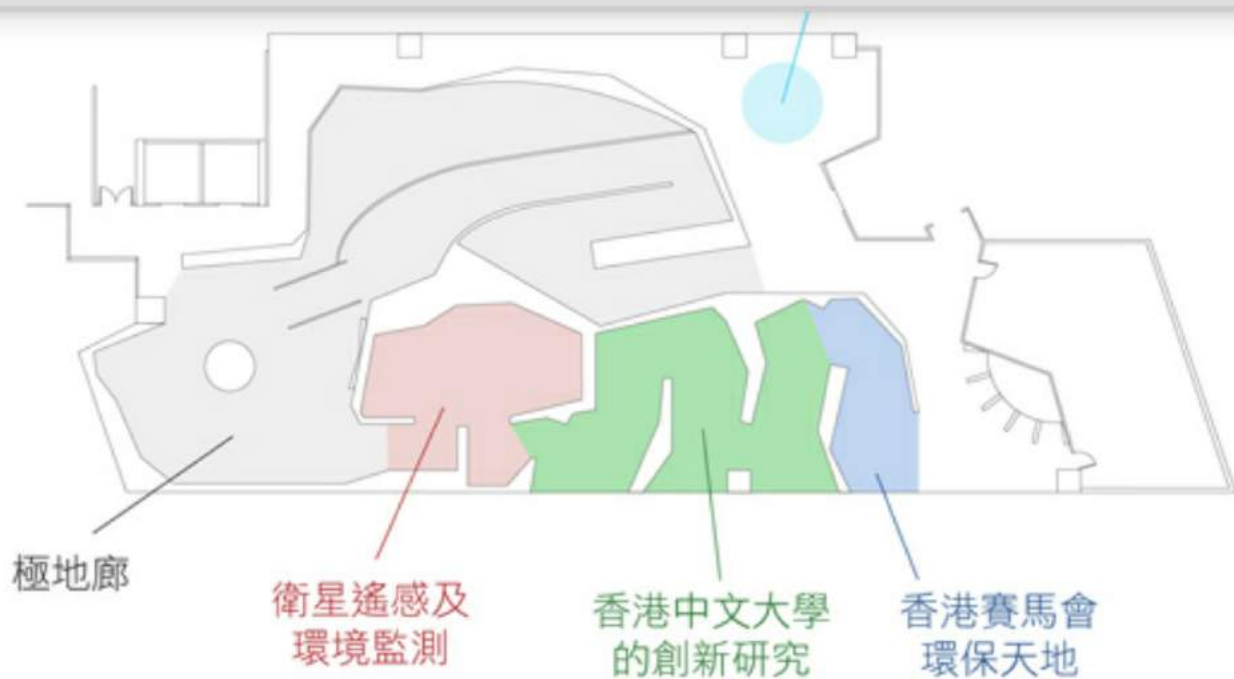


The first of its kind in Hong Kong as well as in the region, the Jockey Club Museum of Climate Change (MoCC) offers an interactive and multimedia exhibition showcasing valuable collections and information about climate change. It is an ideal venue for the public, especially students and teachers, to champion the cause of environmental stewardship and keep themselves abreast of the latest developments on environmental conservation and sustainability.

Floor plan



Floor Plan



Real-time notifications

07:39 Wed, 15 April



Wi-Fi



GPS



Vibrate



Screen
rotation



Bluetooth



Reading
mode



Mobile
data

VOLTE

VoLTE



Jockey Club Museum of Climate Change

Museum closing soon. Thank you for your visit.

07:39



Storage space running out

Some system functions may not work

06:21



19° Mostly Sunny

07:29

1 card

NWMOBILE

*application for exhibition owners
(beacon deployment application)*

Application for exhibition owners

New for beacon deployment

Changes committed to CMS immediately

Multi-user deployment tool



18:25

Radar Tools

Welcome to Radar Tools

mocc

.....

LOGIN

ABOUT

List of exhibits

Exhibition Item List

SNOWY OWL

RINGED SEALS (Completed)

POLAR BEAR (Completed)

ARCTIC HARE (Completed)

HARP SEAL (Completed)

BELUGA WHALE (Completed)

ARCTIC FOX (Completed)

WALRUS (Completed)

Exhibit settings

ID

Bearings (Range)

RINGED SEALS Settings

Beacon Settings

UUID 107F30F5F8466EAF925556B57FE6D

Major 26846

Minor 36763

Angle 9 to 155

SET BEACON ID

SET RIGHT BEARING

SET LEFT BEARING

SAVE SETTINGS

Web

Slide number fifty nine

api

API

Added new functions

RADAR REST API DOCUMENTATION

Important notes

GET notes

GET API key

Methods

GET getDescription

GET getLocationById

GET getLocationByUuidMajorMinor

GET getQuota

GET setDescription

GET setLocation

About

GET ourDetails

POST comments

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Format

```
{"status":"status_of_call","data":{"returned_data"}}
```

Example

```
{"status":"OK","data":{"latitude":"22.4176249","longitude":"114.2973102"}}
```

GET API key

Request an API key

Now Use this demo key: 97d9e7b3f36ef1234e15611ebb66f3eb

Methods

GET getDescription

Description

Returns the description of a beacon.

Parameters

cms

CMS

Multi-user

One-click deployment

Backup

WYSIWYG

Analytics

Login screen

RADAR

LOG IN

ID

PASSWORD

 LOG IN

Main screen

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[↑ RESTORE ▾](#)[🏛 OVERVIEW](#)[📊 ANALYTICS](#)[📢 ANNOUNCEMENT](#)

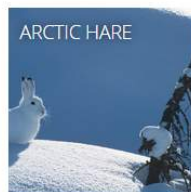
VISITORS IN LAST 10 MINUTES

[🔒 LOG OUT](#)

ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

ARCTIC FOX



ARCTIC HARE



BELUGA WHALE



POLAR BEAR



RINGED SEAL



SNOWY OWL

FLOOR PLAN

RADAR

DASHBOARD

OPERATIONS

SEARCH

+ ADD

⌵
RESTORE

OVERVIEW

ANALYTICS

ANNOUNCEMENT

VISITORS IN LAST 10 MINUTES



LOG OUT

ITEMS

ALL

BIRDS

LAND MAMMALS

SEA MAMMALS

UNDER MAINTENANCE

ID

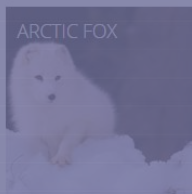
TITLE

VISITOR COUNT

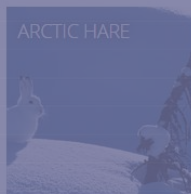
AVERAGE RATING

COMMENT COUNT

ARCTIC FOX



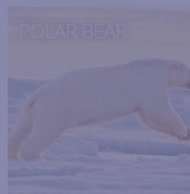
ARCTIC HARE



BELUGA WHALE



POLAR BEAR



RINGED SEAL



SNOWY OWL



FLOOR PLAN

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[↑ RESTORE ▾](#)[🏛 OVERVIEW](#)[📊 ANALYTICS](#)[📢 ANNOUNCEMENT](#)

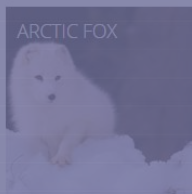
VISITORS IN LAST 10 MINUTES

[🔒 LOG OUT](#)

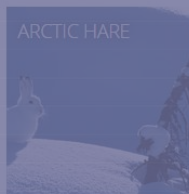
ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

ARCTIC FOX



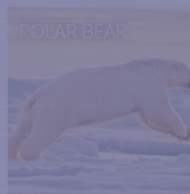
ARCTIC HARE



BELUGA WHALE



POLAR BEAR



RINGED SEAL



FLOOR PLAN

RADAR

DASHBOARD

OPERATIONS

SEARCH

+ ADD

⌵
RESTORE

OVERVIEW

ANALYTICS

ANNOUNCEMENT

VISITORS IN LAST 10 MINUTES

0002

LOG OUT

ITEMS

ALL

BIRDS

LAND MAMMALS

SEA MAMMALS

UNDER MAINTENANCE

ID

TITLE

VISITOR COUNT

AVERAGE RATING

COMMENT COUNT

ARCTIC FOX



ARCTIC HARE



BELUGA WHALE



POLAR BEAR



RINGED SEAL



SNOW LEOPARD



FLOOR PLAN

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[RESTORE](#)[OVERVIEW](#)[ANALYTICS](#)[ANNOUNCEMENT](#)

VISITORS IN LAST 10 MINUTES

2

[LOG OUT](#)

ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

ARCTIC FOX



ARCTIC HARE



BELUGA WHALE



POLAR BEAR



RINGED SEAL



SNOWY OWL

FLOOR PLAN

CURRENT EXHIBITION

OVERVIEW

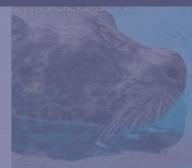
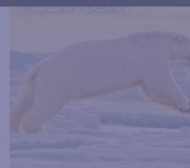
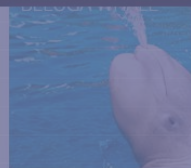
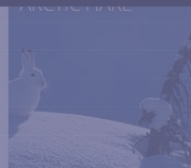
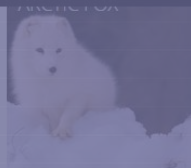
ANALYTICS

ANNOUNCEMENT

VISITORS IN LAST 10 MINUTES

0

LOG OUT



FLOOR PLAN



Navigation bar

Backup

Current exhibition

Next exhibition

BACKUP

CURRENT EXHIBITION

NEXT EXHIBITION

RADAR

DASHBOARD

OPERATIONS

ADD

RESTORE

OVERVIEW

ANALYTICS

ANNOUNCEMENT

VISITORS IN LAST 10 MINUTES

0

ITEMS

ALL

BIRDS

LAND MAMMALS

SEA MAMMALS

UNDER MAINTENANCE

ID

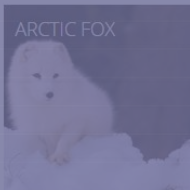
TITLE

VISITOR COUNT

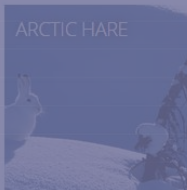
AVERAGE RATING

COMMENT COUNT

ARCTIC FOX



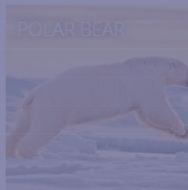
ARCTIC HARE



BELUGA WHALE



POLAR BEAR



RINGED SEAL



SNOW OWL



Operations

Search with Regex

Add

Restore

Exhibition overview

Analytics

Operations (Con't)

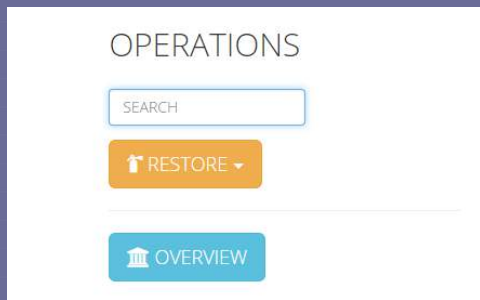
Announcement

Commit

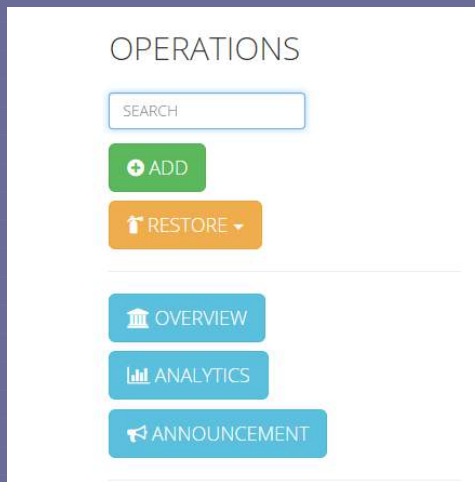
Delete all

Settings

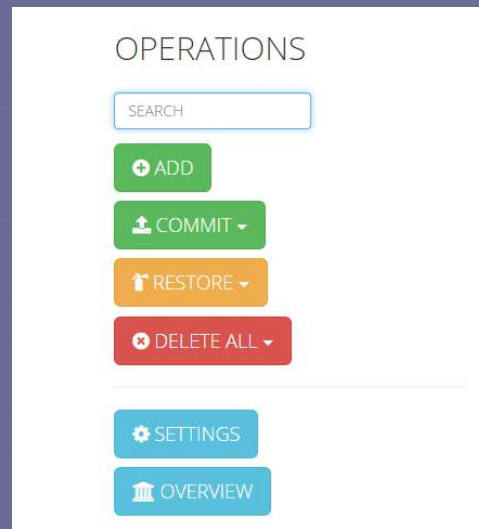
Backup



Current exhibition



Next exhibition



Search with Regex

Simple string

Regex in JavaScript style

Case-insensitive

OPERATIONS



RESTORE ▾

OVERVIEW

ANALYTICS

ITEMS

ALL

BIRDS

LAND MAMMALS

SEA MAMMALS

UNDER MAINTENANCE

ID

TITLE

VISITOR COUNT

AVERAGE RATING

COMMENT COUNT

ARCTIC FOX



ARCTIC HARE



Add

Adds an exhibit

Click on the floor plan position the exhibit



ADD

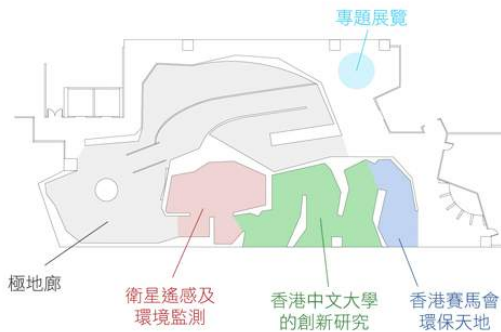
CHINESE TITLE

CHINESE TITLE

ENGLISH TITLE

ENGLISH TITLE

LOCATION



CATEGORY

Select a category

UUID

UUID

MAJOR

MAJOR

MINOR

MINOR

Restore

Recovers data from / to backup, current exhibition and next exhibition

↑ RESTORE ▾

FROM BACKUP

CONFIRM

FROM NEXT EXHIBITION

CONFIRM

Exhibition overview

Quick info of the exhibition

Edit overview here



OVERVIEW

OPERATIONS

CHINESE

ENGLISH



Jockey Club Museum of Climate Change

The first of its kind in Hong Kong as well as in the region, the Jockey Club Museum of Climate Change (MoCC) offers an interactive and multimedia exhibition showcasing valuable collections and information about climate change. It is an ideal venue for the public, especially students and teachers, to champion the cause of environmental stewardship and keep themselves abreast of the latest developments on environmental conservation and sustainability. Extended activities of the MoCC exhibition include eco tour that guide visitors around the prime ecological sites and green facilities on the vast CUHK campus, and a variety of workshops and activities that promote green living.

The MoCC is within 3-minute walking distance from the University MTR Station. Green building principles are adopted as one of the important architectural concepts in aspects such as introduction of day lighting, and solar shading devices, as well as energy conservation and renewable energy usage.

Analytics

Quick tool to analyse exhibit popularity

Analyses visitor count, average rating and stay duration

Data displayed at a glance using graphs



ANALYTICS

CHARTS



VISITOR COUNTS



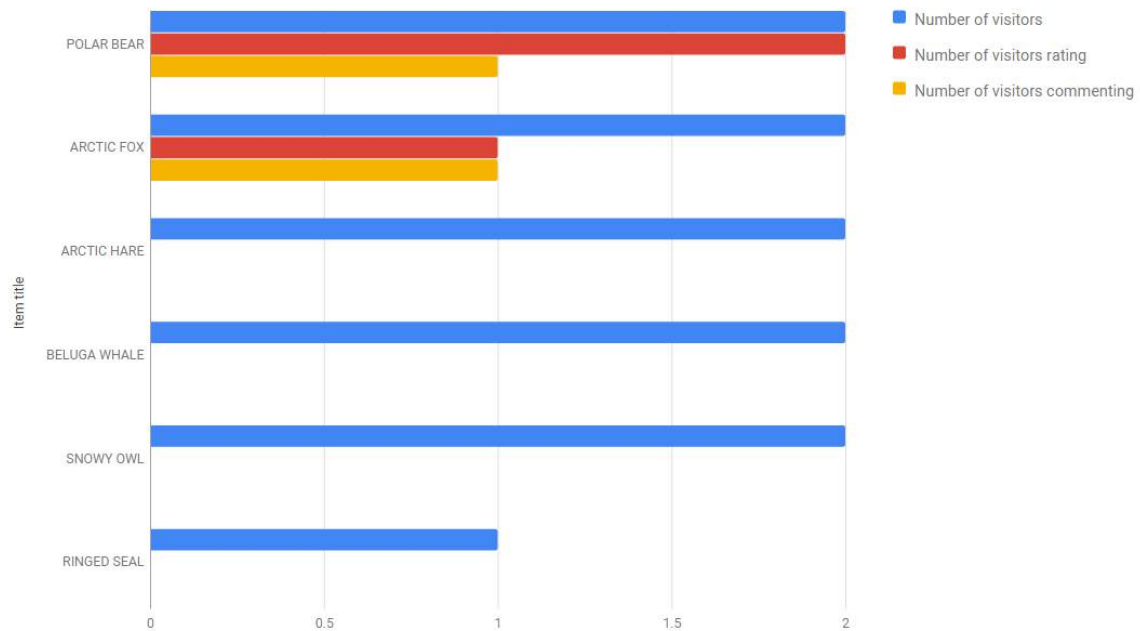
AVERAGE RATING



STAY DURATION

Visitor Statistics

Visitor count, rating count and comment count





ANALYTICS

CHARTS



VISITOR COUNTS



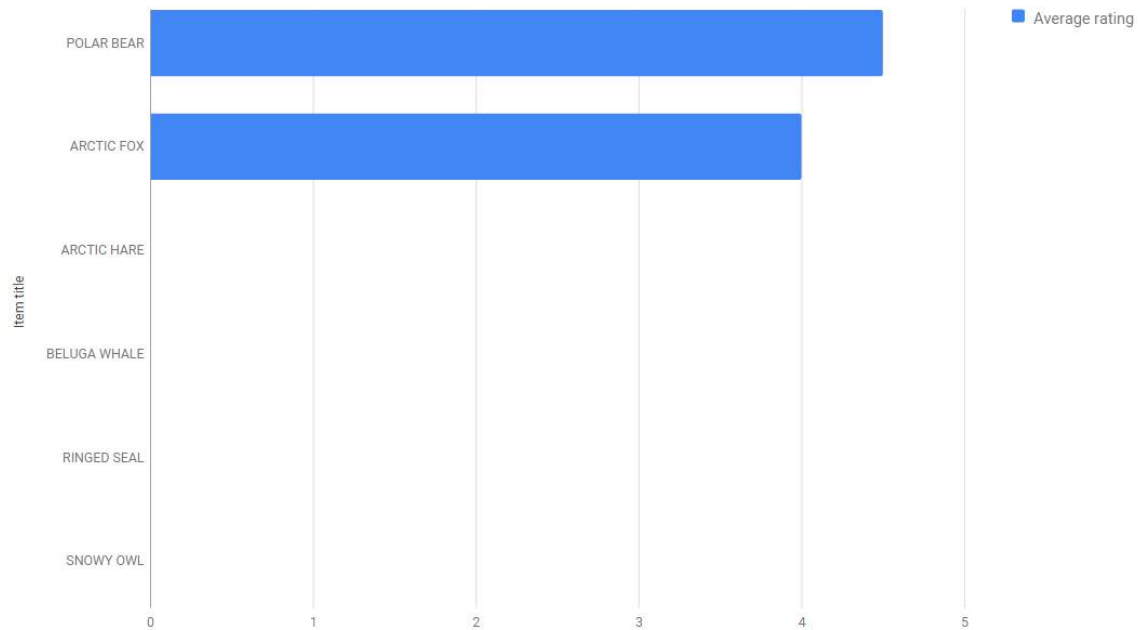
AVERAGE RATING



STAY DURATION

Average Exhibit Rating

Average rating for each exhibit. Ratings range from 1 to 5





ANALYTICS

CHARTS



VISITOR COUNTS

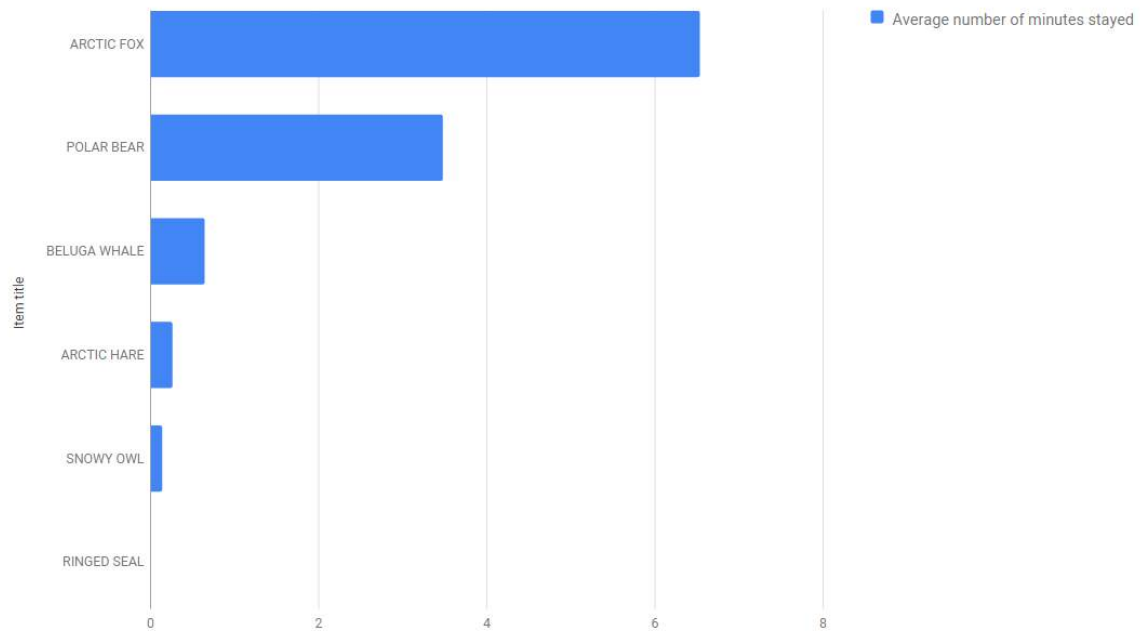


AVERAGE RATING



STAY DURATION

Average duration of stay at each exhibit
Average length of period tourists stay at the spot



Announcement

*Pushes multilingual announcements to all users
immediately*

e.g. Fire alert, closing reminder



ANNOUNCEMENT

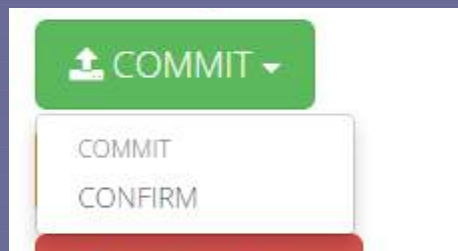
CHINESE MESSAGE

ENGLISH MESSAGE

 MAKE AN ANNOUNCEMENT

Commit

Makes changes live immediately



Delete all (reversible)

Deletes all exhibit information

Data can be rolled back to current or backup versions

 DELETE ALL ▾

DELETE ALL BEACONS

CONFIRM

 SETTINGS

Settings

Modifies the exhibition information



SETTINGS

FLOOR PLAN

http://appsrv.cse.cuhk.edu.hk/~twyeung2/mocc/images/hk_moccfloorplan.jpg



CHINESE TITLE

賽馬會氣候變化博物館

CHINESE DESCRIPTION

賽馬會氣候變化博物館是香港以至東南亞第一所以氣候變化為主題的博物館，向公眾提供有關氣候變化的展品和資訊的多媒體互動展覽，讓公眾尤其學生和老師緊貼及掌握可持續發展的趨勢，凝聚環保力量。展覽的延伸活動包括由導賞員帶領遊覽中大校園生態景點和參觀綠化設施的生態行，以及推廣綠色生活的工作坊及活動。

賽馬會氣候變化博物館毗鄰港鐵大學站，步行三分鐘即可抵達。博物館的設計融會貫通綠色建築概念，包括自然採光、遮陽隔熱裝置、節約能源及使用再生能源等。

ENGLISH TITLE

Jockey Club Museum of Climate Change

ENGLISH DESCRIPTION

The first of its kind in Hong Kong as well as in the region, the Jockey Club Museum of Climate Change (MoCC) offers an interactive and multimedia exhibition showcasing valuable

Visitor count

Counts visitors in the last 10 minutes

Auto updates every 15 seconds

VISITORS IN LAST 10 MINUTES

■ ■ ■ 2

Items

Displays all exhibits

Filter

Sort

Filter

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[⌵ RESTORE](#)[🏠 OVERVIEW](#)[📊 ANALYTICS](#)[📢 ANNOUNCEMENT](#)

VISITORS IN LAST 10 MINUTES

■

■

■

0

[🔒 LOG OUT](#)

ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

FLOOR PLAN

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[🔧 RESTORE ▾](#)[🏠 OVERVIEW](#)[📊 ANALYTICS](#)[📢 ANNOUNCEMENT](#)

VISITORS IN LAST 10 MINUTES

0

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ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

FLOOR PLAN



Sort

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[⌵ RESTORE](#)[🏠 OVERVIEW](#)[📊 ANALYTICS](#)[📢 ANNOUNCEMENT](#)

VISITORS IN LAST 10 MINUTES

0

[🔒 LOG OUT](#)

ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

FLOOR PLAN

RADAR

DASHBOARD

OPERATIONS

[+ ADD](#)[🔧 RESTORE ▾](#)[🏛️ OVERVIEW](#)[📊 ANALYTICS](#)[📢 ANNOUNCEMENT](#)

VISITORS IN LAST 10 MINUTES

[🔒 LOG OUT](#)

ITEMS

[ALL](#)[BIRDS](#)[LAND MAMMALS](#)[SEA MAMMALS](#)[UNDER MAINTENANCE](#)[ID](#)[TITLE](#)[VISITOR COUNT](#)[AVERAGE RATING](#)[COMMENT COUNT](#)

FLOOR PLAN

Preview

Shows details of a particular exhibit



PREVIEW

DETAILS

UUID: B9407F30F5F8466EAF925556B57FE6D

MAJOR: 26846

MINOR: 36763

COMPASS ANGLE: 105 to 178

MAINTENANCE



LANGUAGE

CHINESE

ENGLISH

STATISTICS

VISITOR COUNT



AVERAGE RATING



RATED BY



The polar bear is the largest member of the bear family. It is also the largest carnivorous animal on land. The polar bear is distinguished from other members of its species by its long body and the characteristic shape of its neck and skull. Male and female bears differ greatly in body weight. Males (350-800kg) weigh more than twice as much as females (150-300kg). Weights vary with the seasons. In particular, pregnant females may be twice as heavy in late summer as in early spring.

Fur

The fur of a polar bear consists of a layer of dense underfur and an outer layer of guard hair which looks white but is actually transparent. This bright white coat provides good camouflage in the snow, protecting bears from the threat of human hunters and helping them to track and hunt down seals. The thick, glossy coat of fur also covers a fat layer under the skin and keeps the bear warm.



PREVIEW

DETAILS

UUID: 89407F30F5F8466EAF925556B57FE6D

MAJOR: 26846

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MAINTENANCE



LANGUAGE

CHINESE

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PREVIEW

DETAILS

UUID: 89407F30F5F8466EAF925556B57FE6D

MAJOR: 26846

MINOR: 36763

COMPASS ANGLE: 105 to 178

MAINTENANCE

OFF

LANGUAGE

CHINESE

ENGLISH

STATISTICS

VISITOR COUNT

2

AVERAGE RATING

5

RATED BY

1



POLAR BEAR

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Details

UUID

Major

Minor

Compass angles

DETAILS

UUID: B9407F30F5F8466EAF925556B57FE6D

MAJOR: 26846

MINOR: 36763

COMPASS ANGLE: 105 to 178

Maintenance

Toggle on and off

MAINTENANCE



Language

English

正體中文

LANGUAGE

CHINESE

ENGLISH

Statistics

Visitor count

Average rating

Rated by

Comment count

Average stay duration

STATISTICS

VISITOR COUNT



AVERAGE RATING



RATED BY



COMMENT COUNT



AVERAGE STAY DURATION



Cover photos slideshow

Displays all photos of the exhibit



POLAR BEAR

Description

Describes the exhibits

The polar bear is the largest member of the bear family. It is also the largest carnivorous animal on land. The polar bear is distinguished from other members of its species by its long body and the characteristic shape of its neck and skull. Male and female bears differ greatly in body weight. Males (350-800kg) weigh more than twice as much as females (150-300kg). Weights vary with the seasons. In particular, pregnant females may be twice as heavy in late summer as in early spring.

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Other Characteristics

The polar bear has a long and narrow head, which is smaller than that of other bears. It also has smaller ears, which are covered by a thin layer of fur. Its long incisors are needed for hunting, and its sharp molars are essential for its mainly carnivorous diet. Its large, strong palms enables it to smash holes in the ice and hunt seals. It also has non-retractable straight, sharp brown claws.

Food Polar bears mainly feed on ringed seals, but their diet also occasionally includes bearded seals. Other known food sources include young walruses, carcasses of beluga whales and right whales, birds, vegetation and seaweed. Polar bears commonly travel long distances to hunt for food.

Behaviour Polar bears lead solitary lives except when pregnant or rearing their young.

Habitat Polar bears are found throughout the Arctic Circle, along the shoreline, on islands and most commonly on floating ice. They hunt, live, reproduce and build lairs on large masses of stable floating ice in the Arctic region all year round.

Comments

Displays all comments below the description

COMMENTS is it found in south pole?

SHB Reading Room on 6/F

Slide number one hundred twenty six





HKIDC International ICT Expo 2015

Slide number one hundred twenty nine





Prof. KING Kuo Chin Irwin
金國慶教授

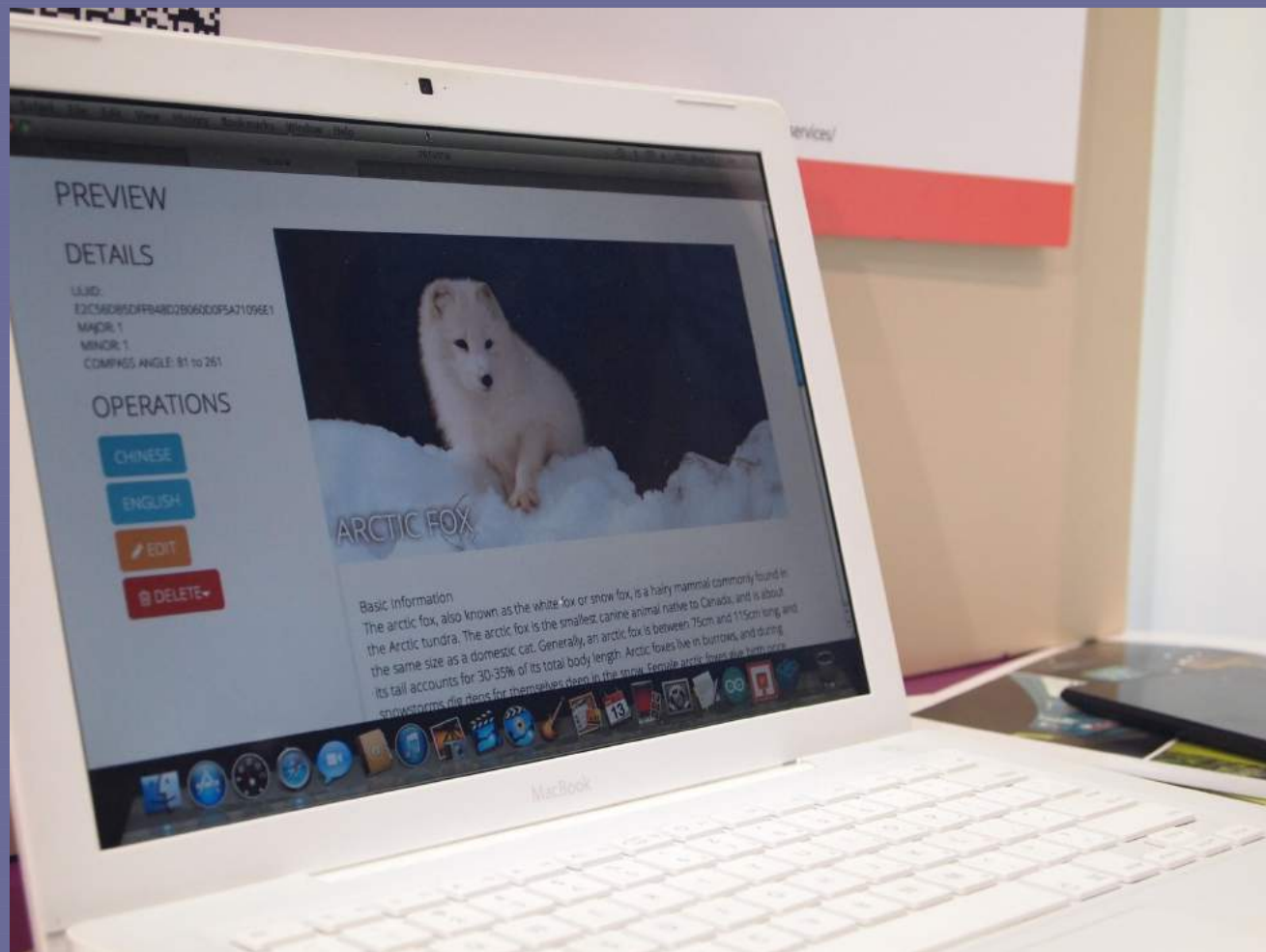
Department of Computer Science and Engineering
計算機科學與工程學系

Open-source Cloud-based SDK Framework for Location-based Services

基於位置服務的開源雲計算軟件開發工具包框架

With the advancement of Internet and positioning systems such as GPS, Wi-Fi, and iBeacon, etc., accurately pinpointing users' locations, especially the indoor locations, becomes possible. This brings many business opportunities via providing location-based services – to support fast development of mobile applications such as recommender systems, proximity information pushing, parking guidance, tourism/travel suggestion, and emergent evacuation.

In view of this, CUHK developed a set of Software Development Kits (SDKs) and Application Program Interfaces (APIs) for developers to create new location-based services. Our development follows the following unique features: (1) Novel algorithms for users' accurate location estimation. (2) Cloud-based big data analytics techniques. (3) Developed and deployed a set of open-source SDKs and APIs.





Future

Next



*

IBEACON

Future

iOS application



I B E A C O N

Future

merchant-specific system



I B E A C O N

Future

automatic commits



I B E A C O N

Future

analytics with inferences



I B E A C O N

?

Slide number one hundred thirty nine

suggestions on deployment

Slide number one hundred forty

ID is public

Never use in transactions

Signal strength matters

*NG Ping Him
Yeung Tak Wing
2015*

Thank you

lyn1403.