CRUCEROS

Actualización Científica en Matemáticas

M.Carmen Plaza Bermejo

UCA

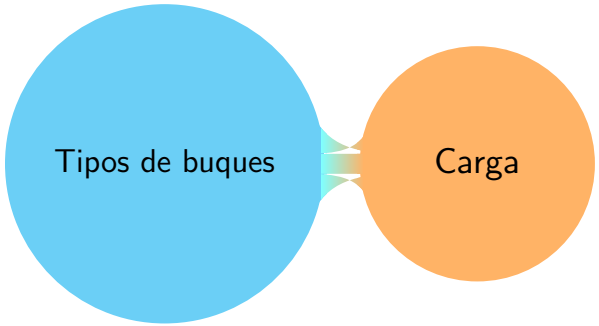
Mayo 26, 2020

Índice

1. Introducción
2. Cruceros
3. Compañías
4. Rutas
5. Procedencia pasajeros
6. Evolución
7. Cruceros más grandes del mundo
8. Reparaciones

Tipos de buques

Tipos de buques



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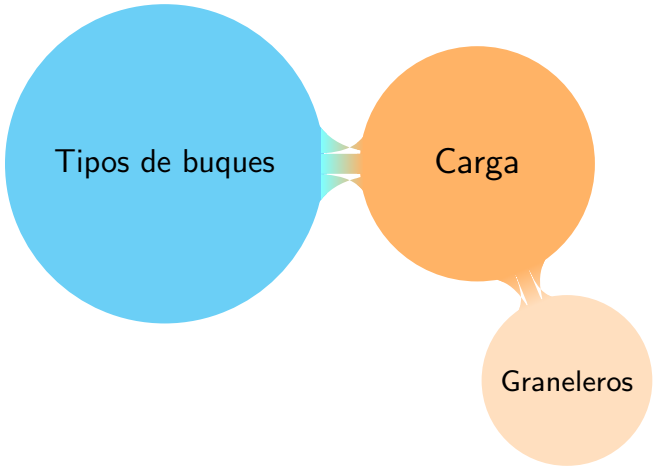

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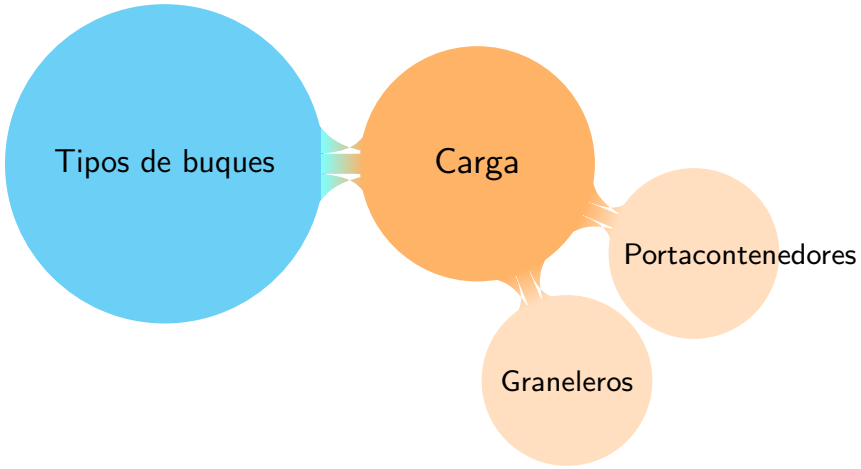

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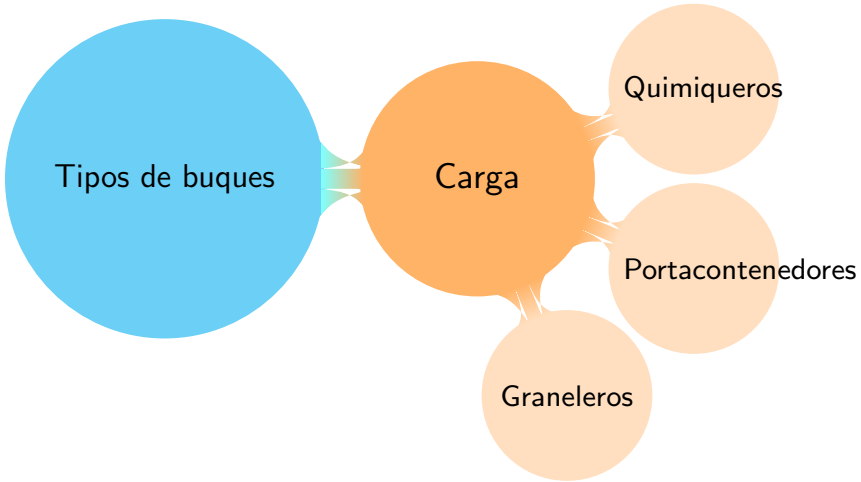

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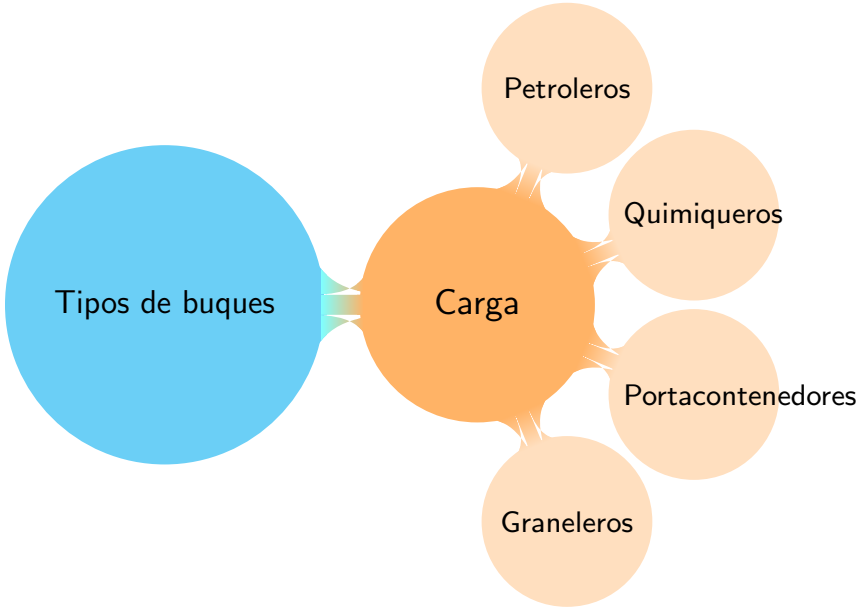

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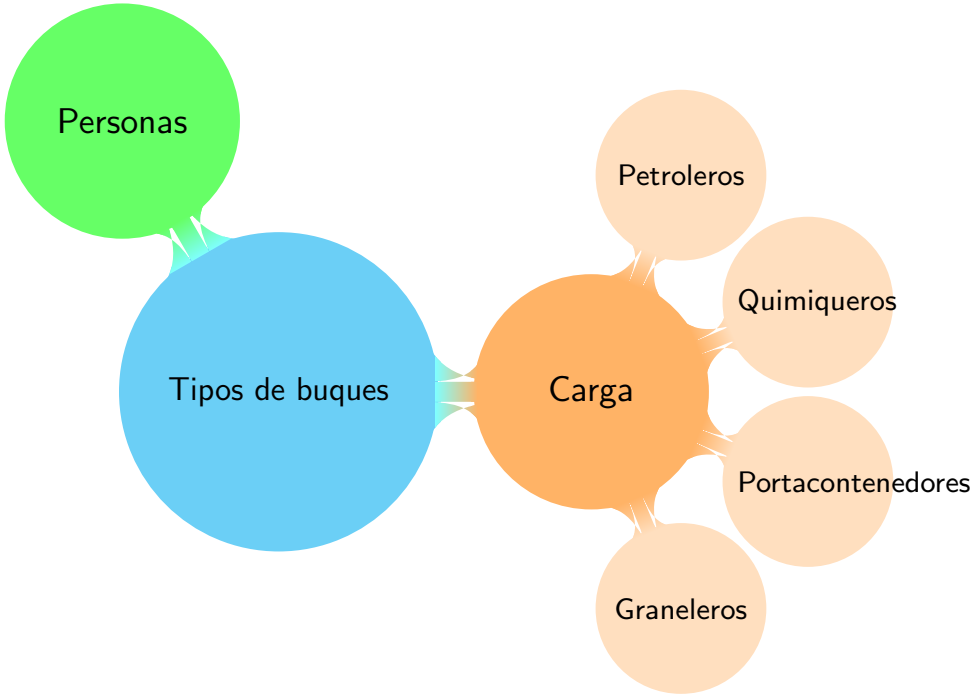

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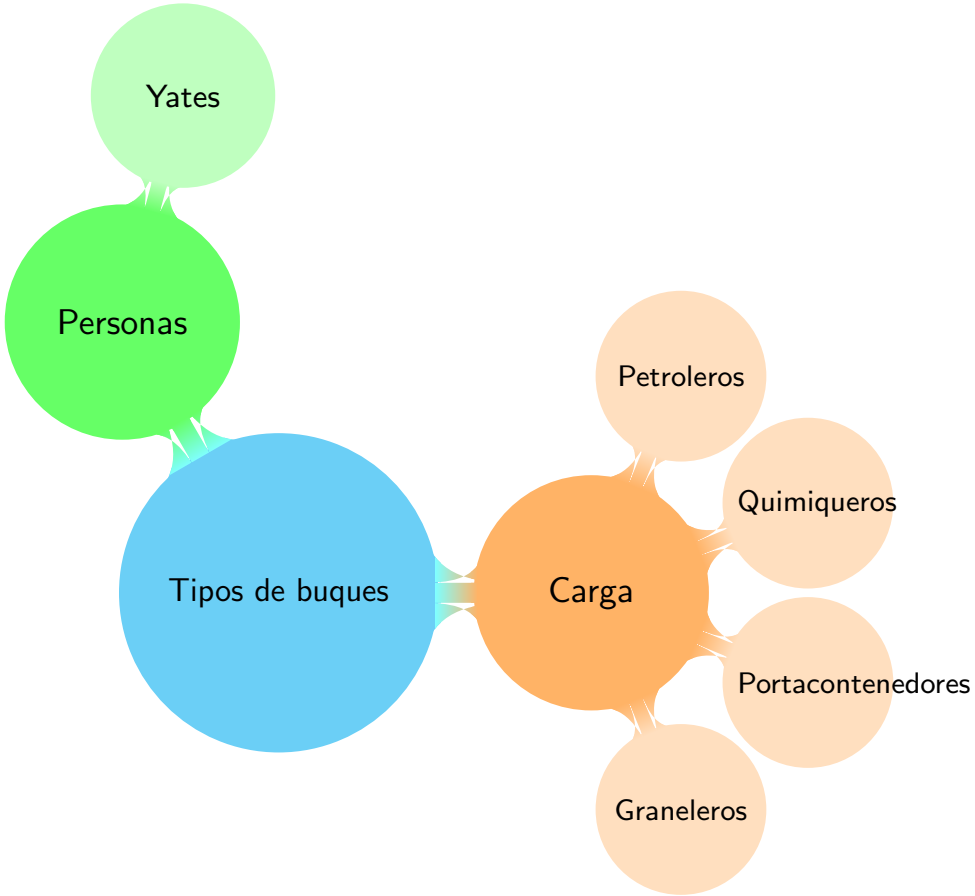

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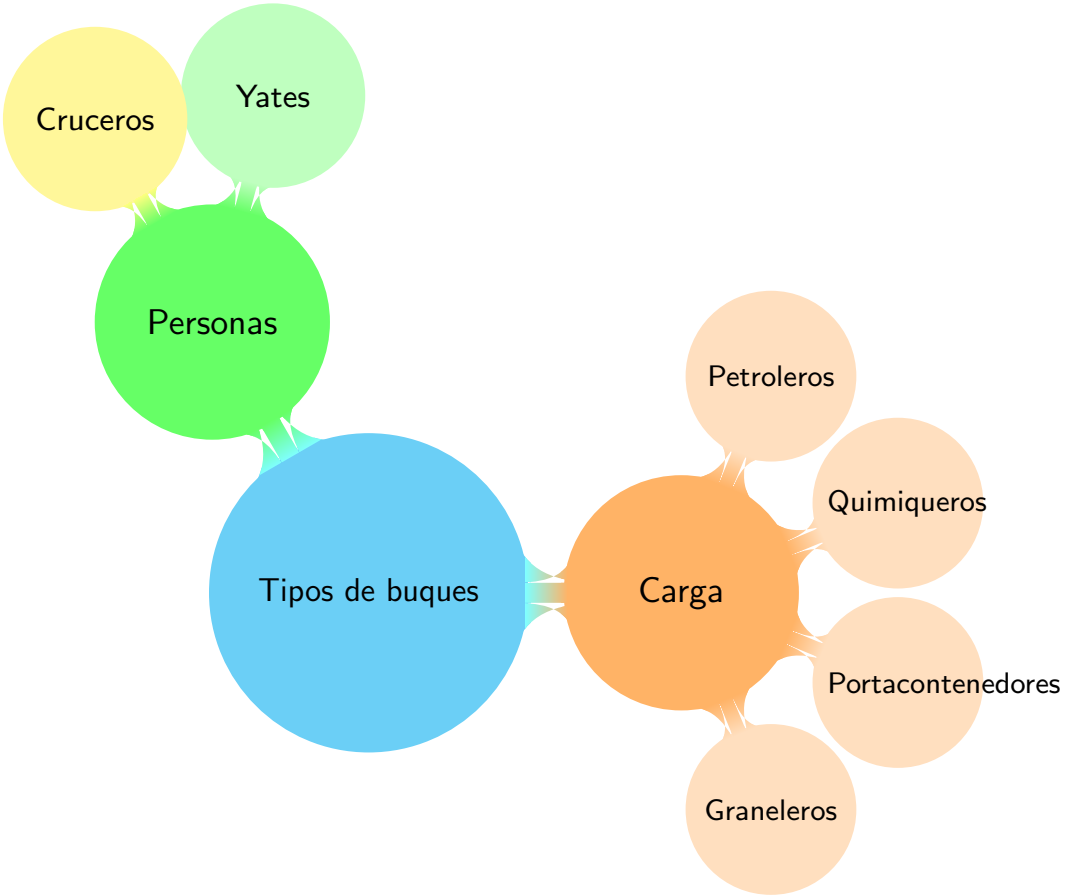

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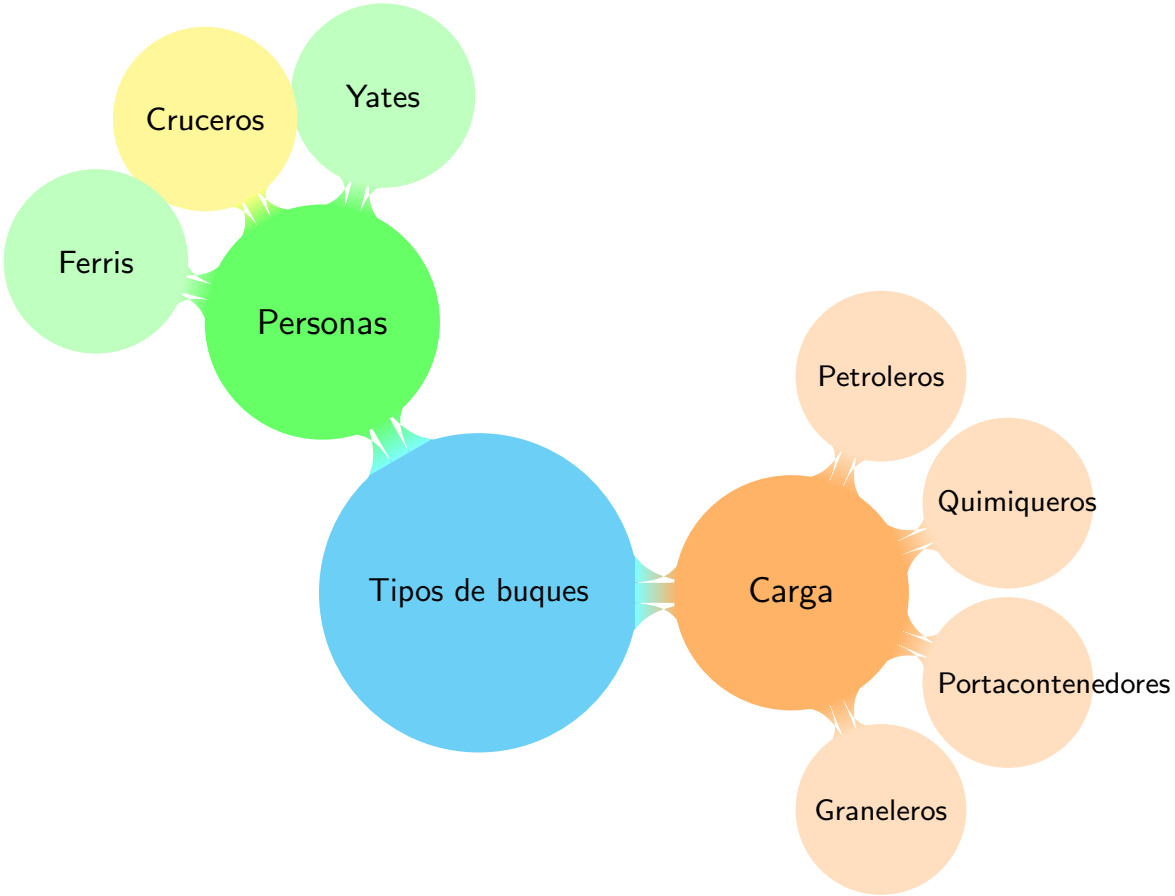

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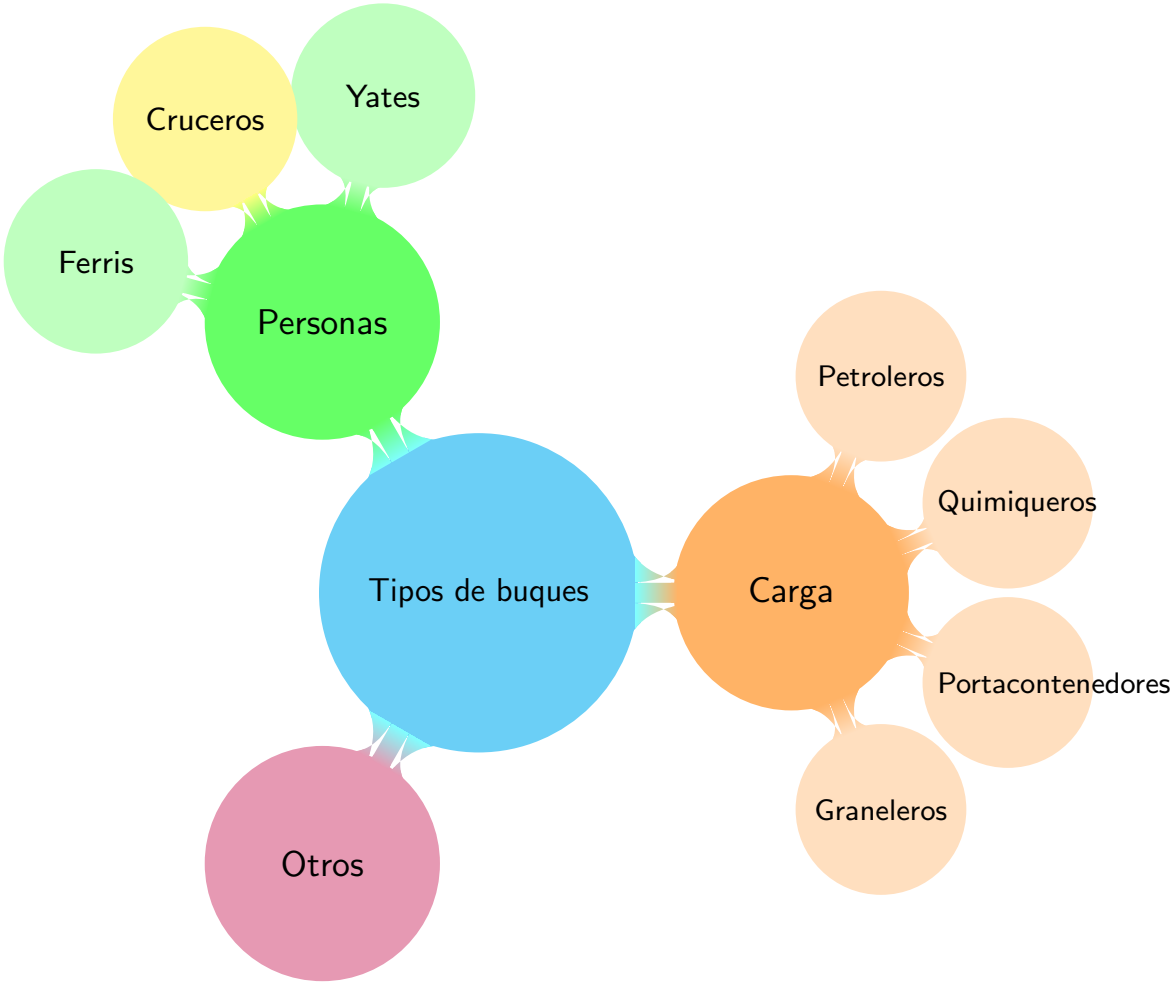

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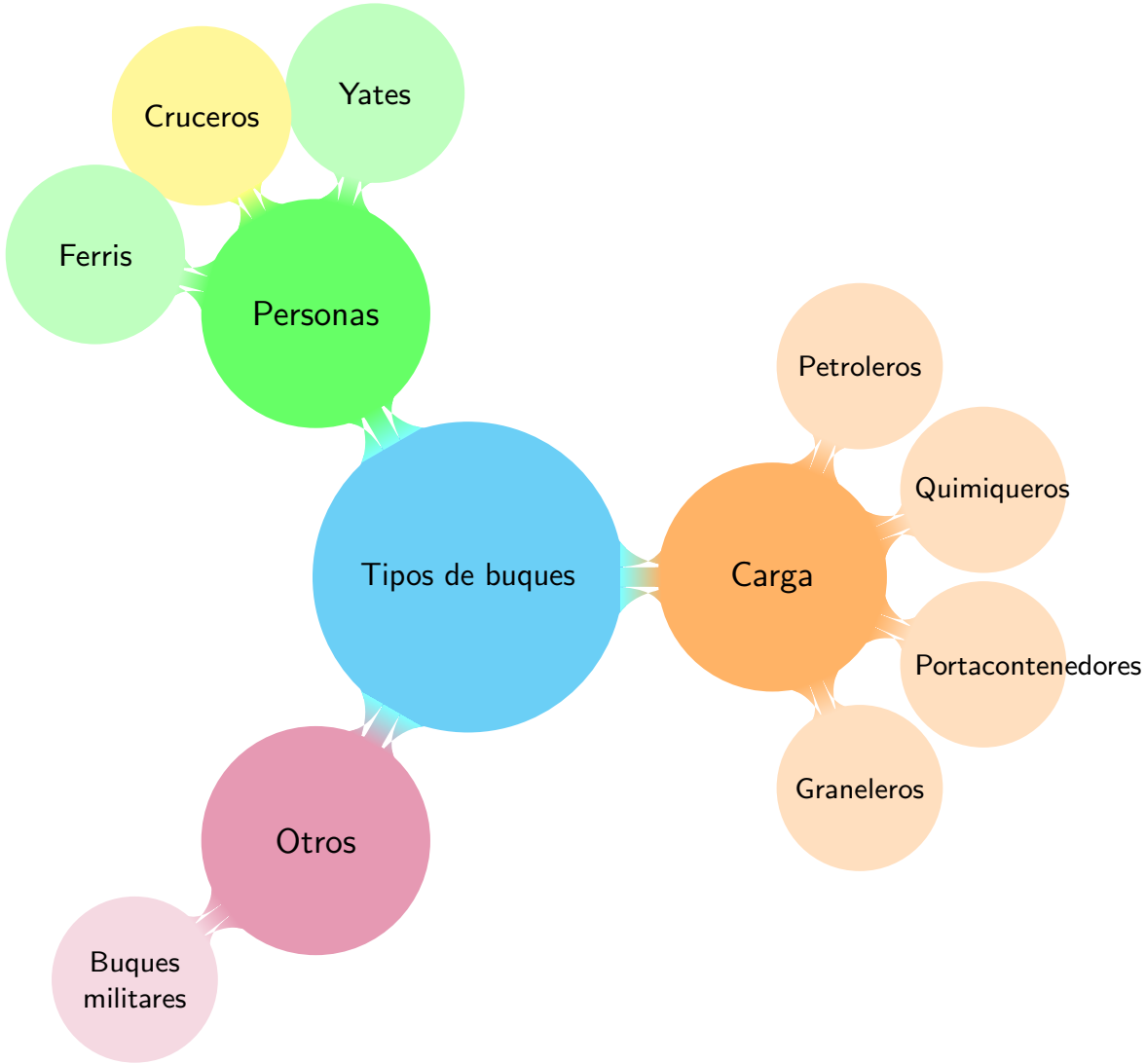

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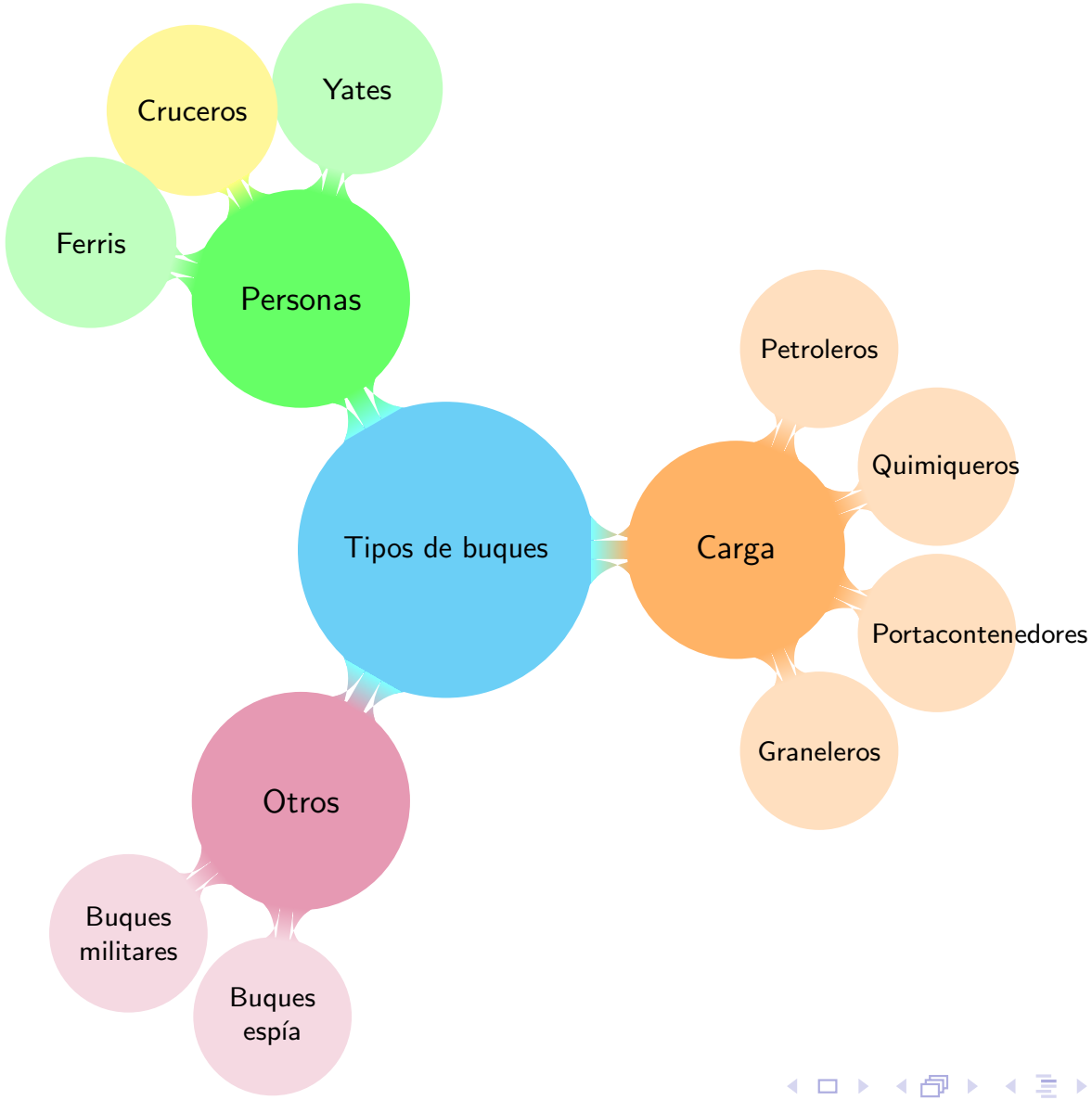

Cruceros

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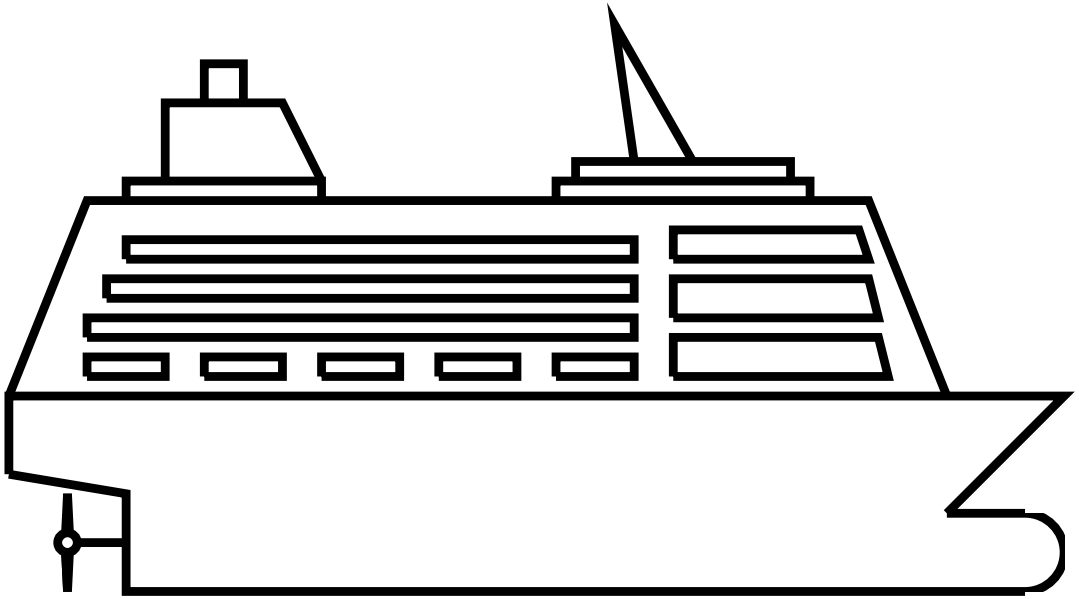
Cruceros

CRUCEROS



Compañías

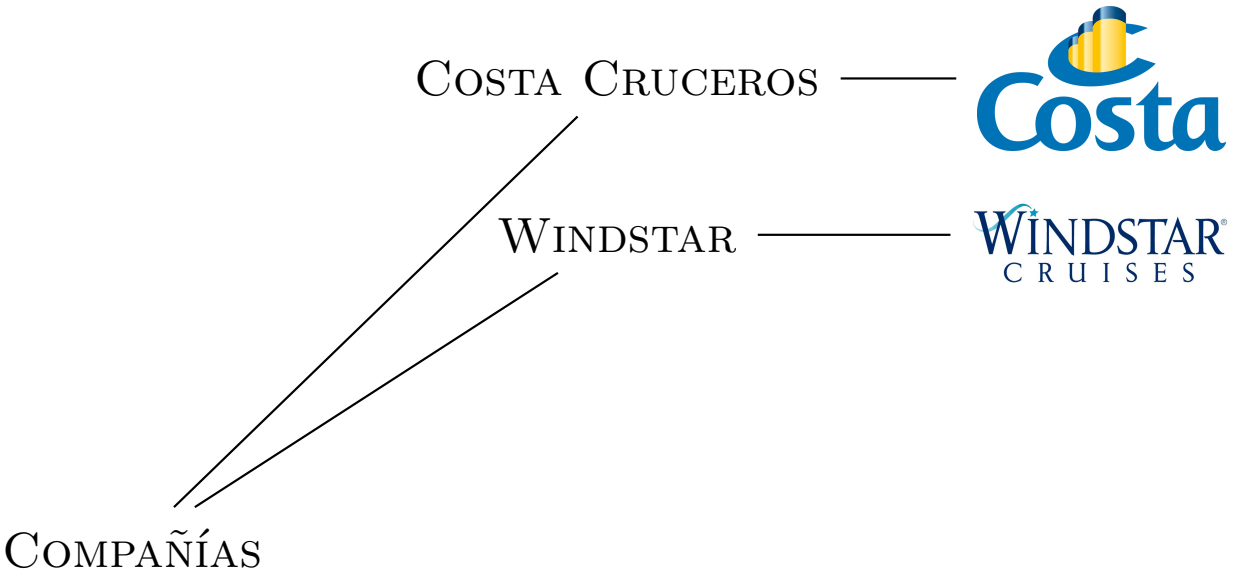
Compañías

Compañías

Costa Cruceros

Compañías

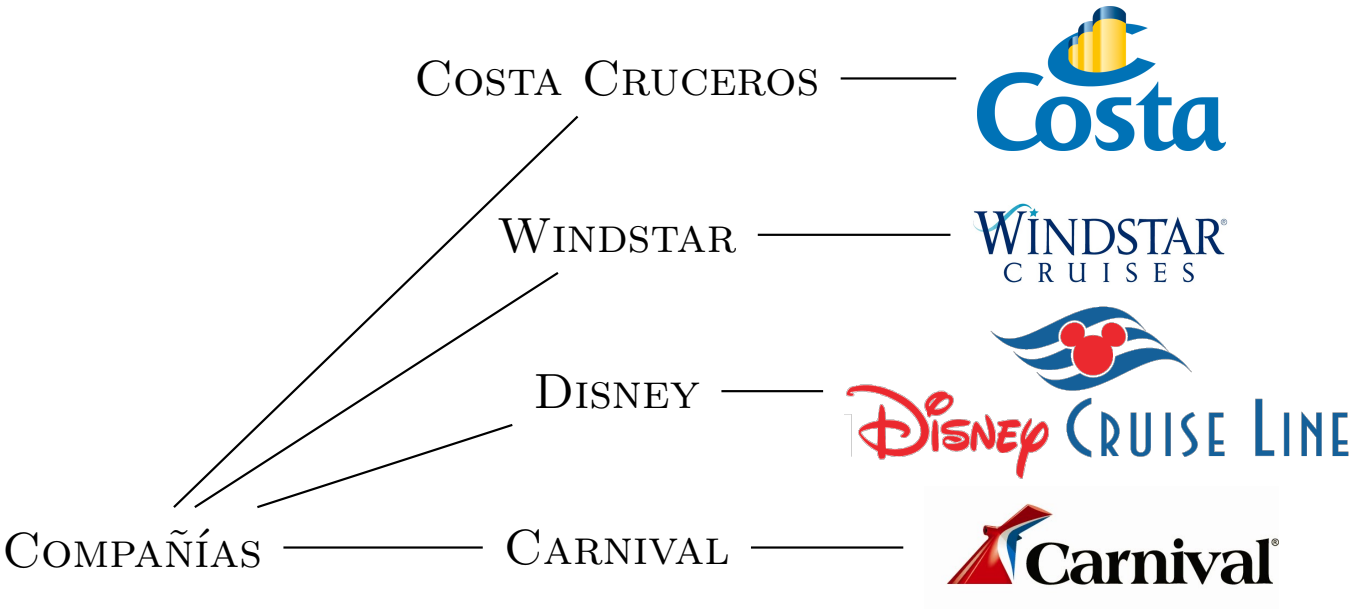
Compañías


Costa Cruceros
Costa
Windstar
Windstar Cruises
Compañías

Compañías

- Compañías
  - Costa Cruceros
  - Windstar
  - Disney

Compañías


Costa Cruceros
Costa
Windstar
Windstar Cruises
Disney
Disney Cruise Line
Compañías
Carnival
Carnival

Compañías

- Compañías
  - Costa Cruceros
  - Windstar
  - Disney
  - Carnival
  - MSC Cruceros

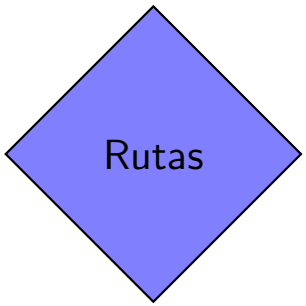
Compañías

- Compañías
  - Costa Cruceros
  - Windstar
  - Disney
  - Carnival
  - MSC Cruceros
  - pullmantur

Compañías

- Compañías
  - Costa Cruceros
  - Windstar
  - Disney
  - Carnival
  - MSC Cruceros
  - pullmantur
  - Royal Caribbean

Rutas principales de los cruceros



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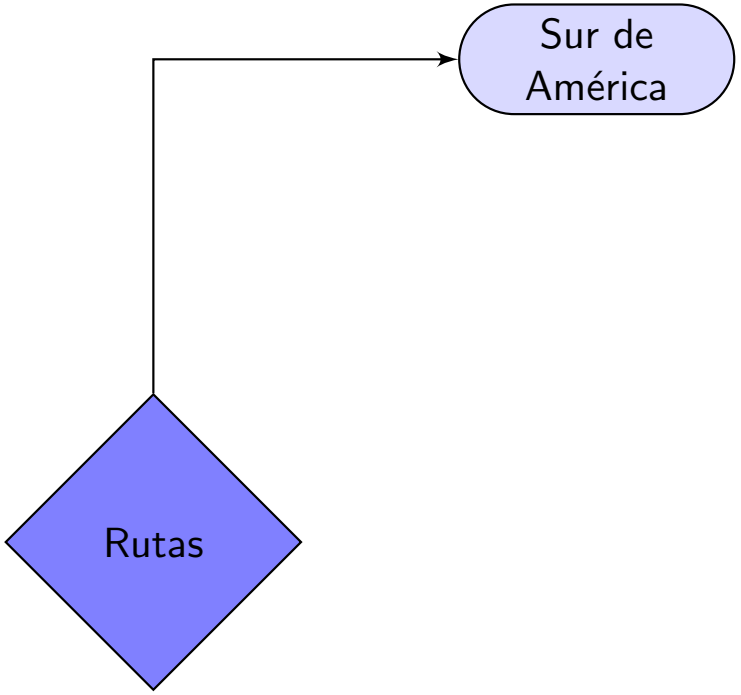

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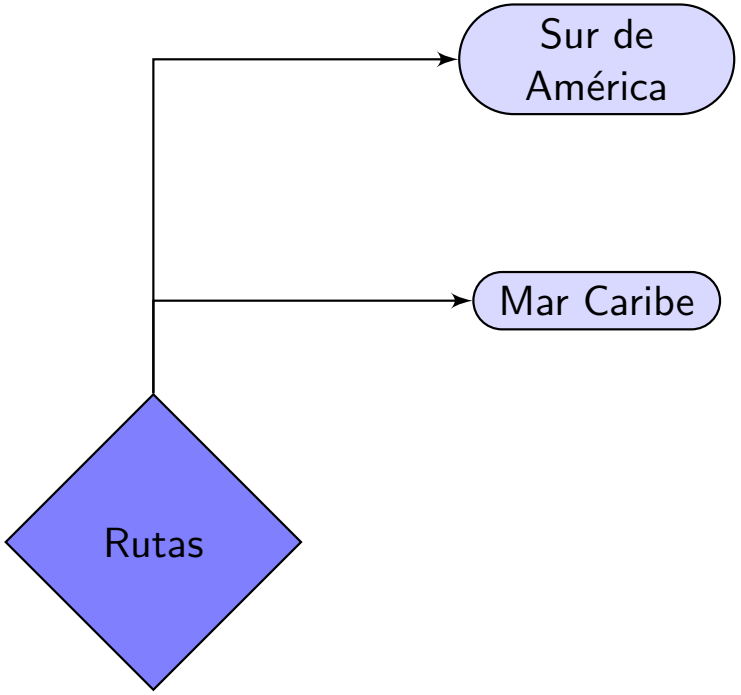
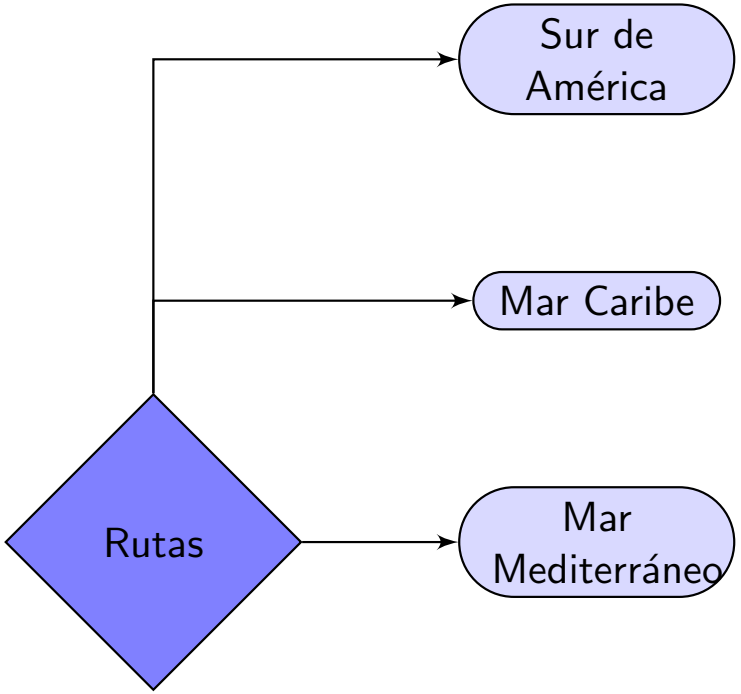
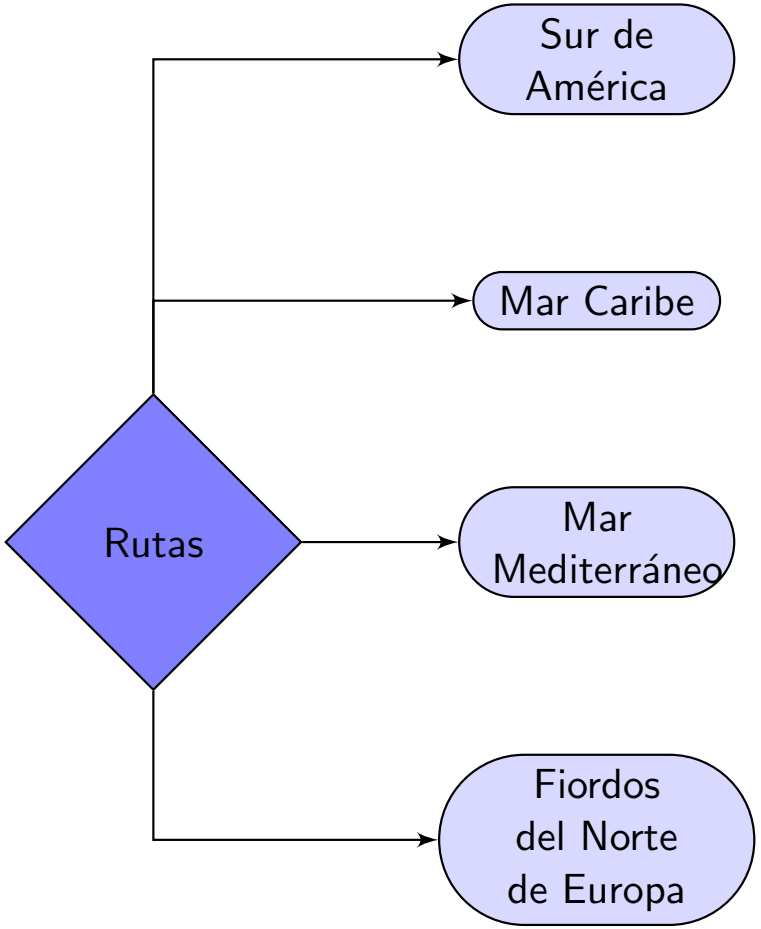


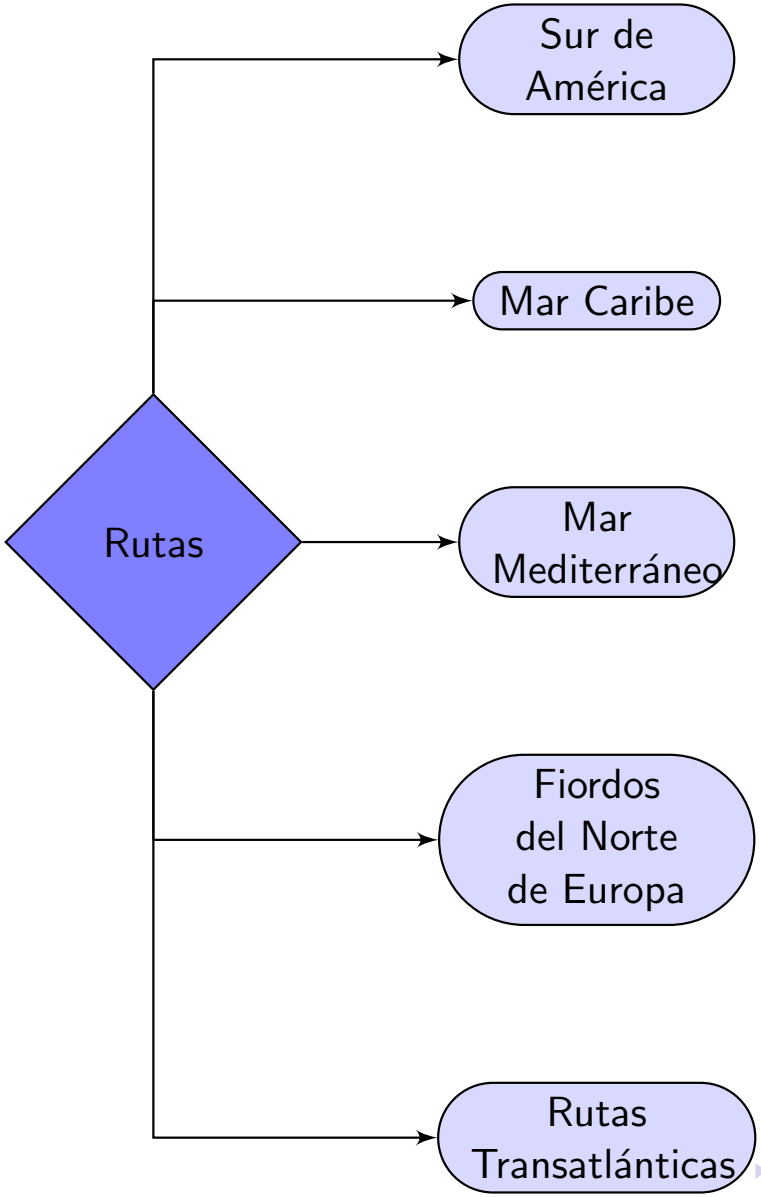
Rutas principales de los cruceros



Rutas principales de los cruceros



Rutas principales de los cruceros



Rutas principales de los cruceros

Figure: The world

Rutas principales de los cruceros

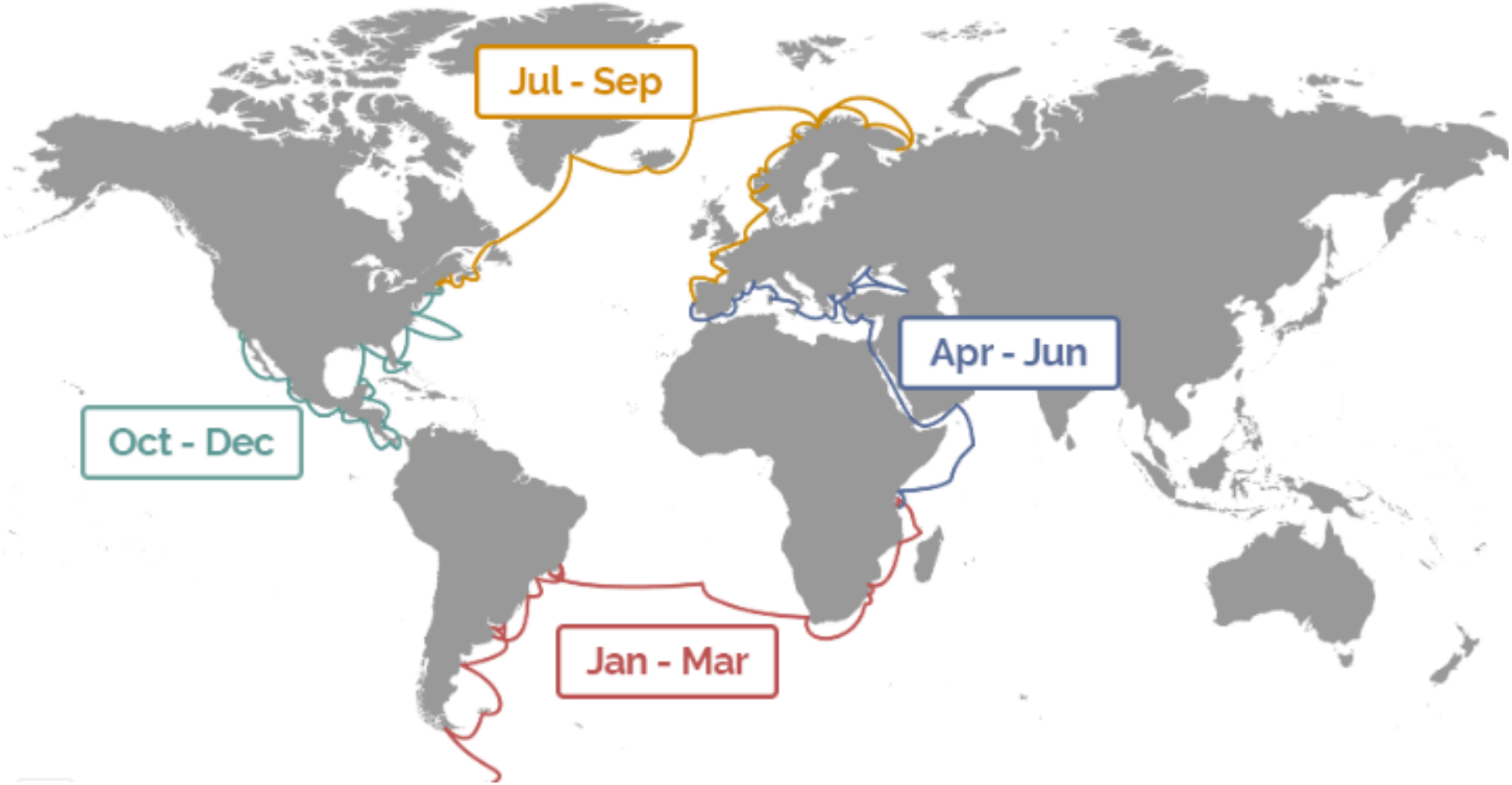
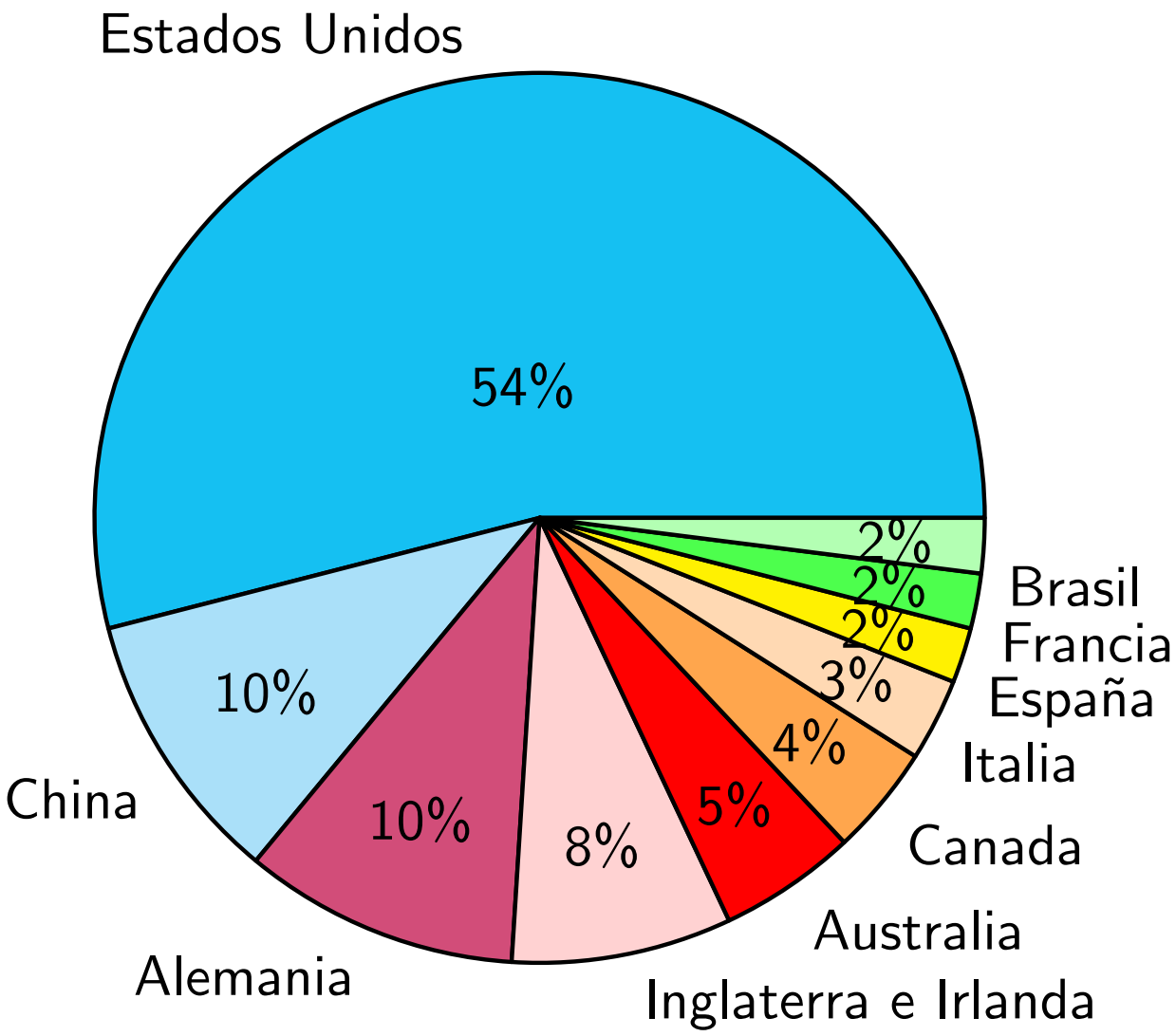
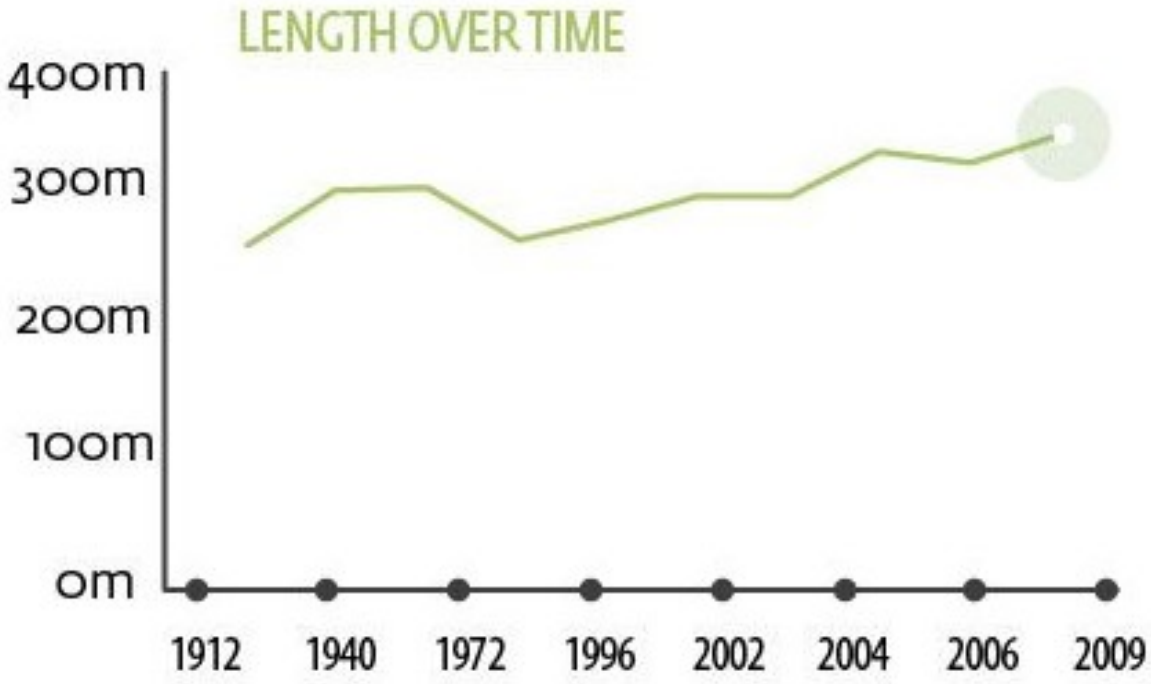


Figure: Itinerario The world, 2021

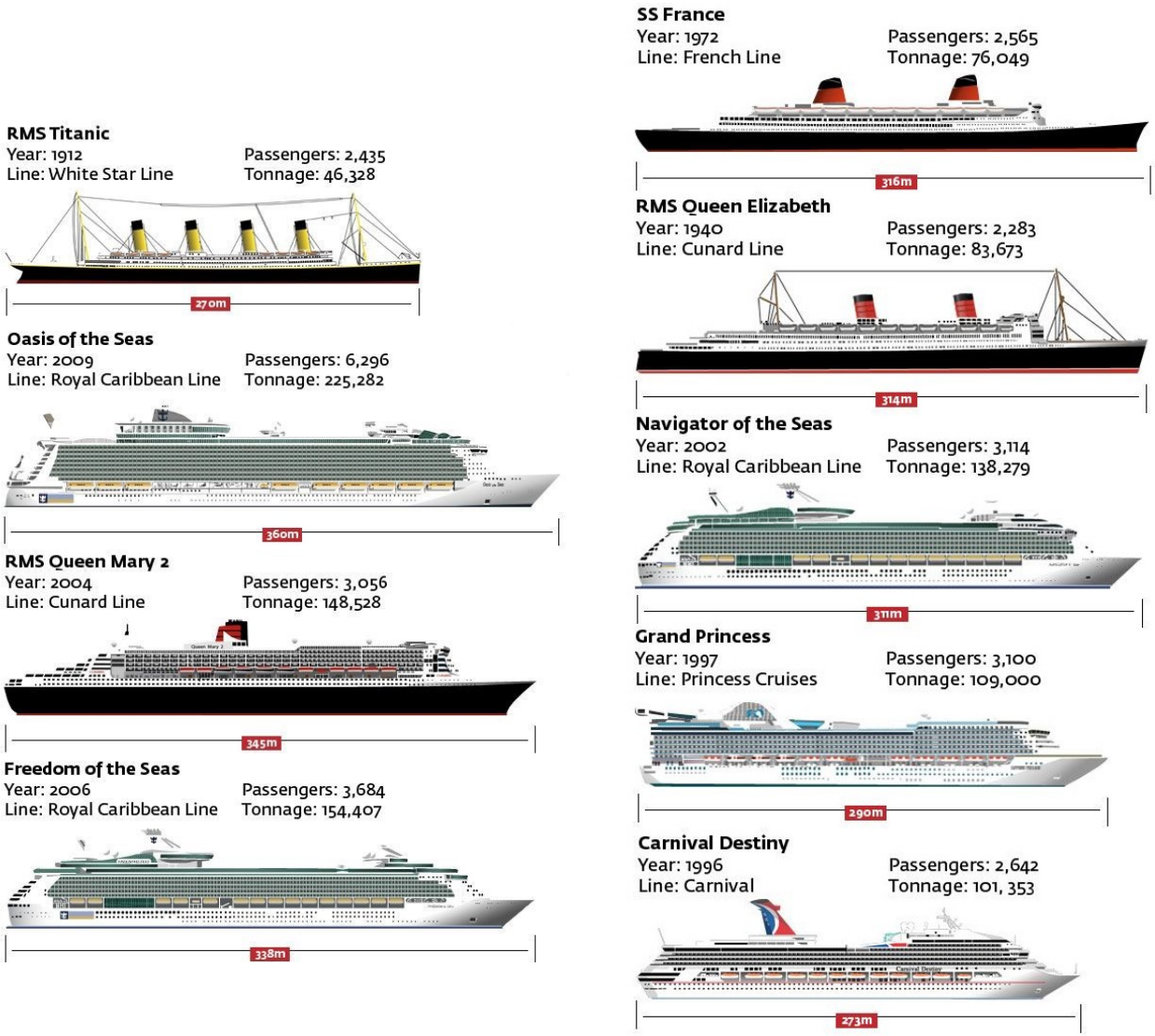
Procedencia de los pasajeros de cruceros



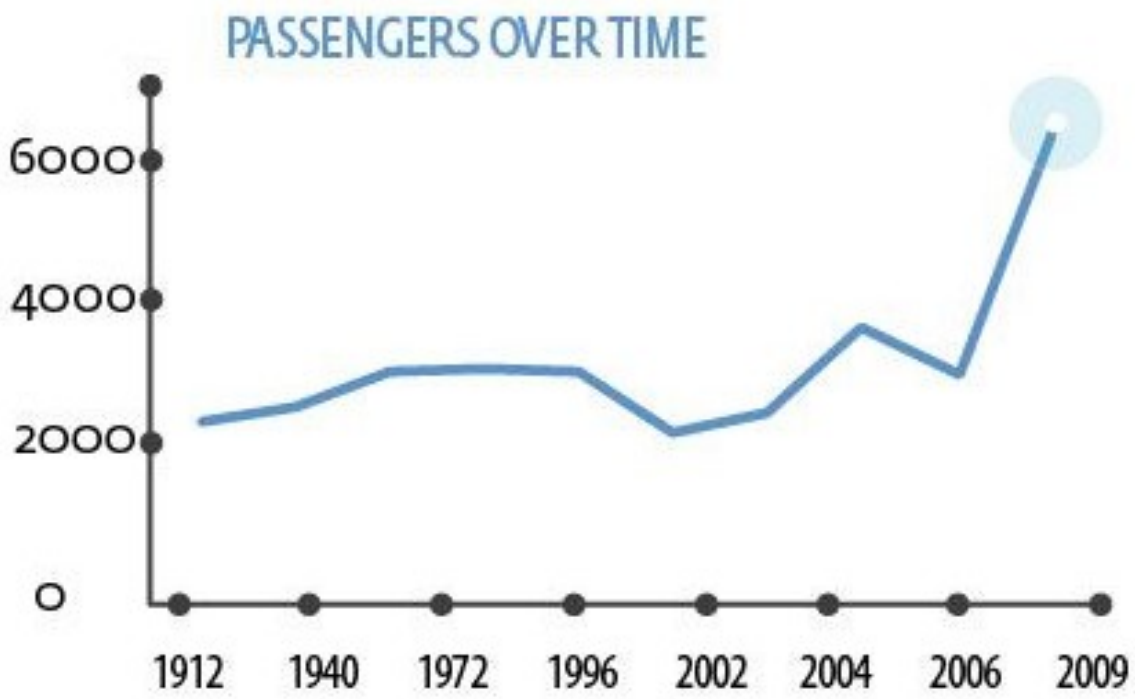
Evolución


LENGTH OVER TIME
400m
300m
200m
100m
0m
1912
1940
1972
1996
2002
2004
2006
2009

Evolución


RMS Titanic
Year: 1912
Line: White Star Line
Passengers: 2,435
Tonnage: 46,328
270m
Oasis of the Seas
Year: 2009
Line: Royal Caribbean Line
Passengers: 6,296
Tonnage: 225,282
360m
RMS Queen Mary 2
Year: 2004
Line: Cunard Line
Passengers: 3,056
Tonnage: 148,528
345m
Freedom of the Seas
Year: 2006
Line: Royal Caribbean Line
Passengers: 3,684
Tonnage: 154,407
338m
SS France
Year: 1972
Line: French Line
Passengers: 2,565
Tonnage: 76,049
316m
RMS Queen Elizabeth
Year: 1940
Line: Cunard Line
Passengers: 2,283
Tonnage: 83,673
314m
Navigator of the Seas
Year: 2002
Line: Royal Caribbean Line
Passengers: 3,114
Tonnage: 138,279
311m
Grand Princess
Year: 1997
Line: Princess Cruises
Passengers: 3,100
Tonnage: 109,000
290m
Carnival Destiny
Year: 1996
Line: Carnival
Passengers: 2,642
Tonnage: 101, 353
273m

Evolución

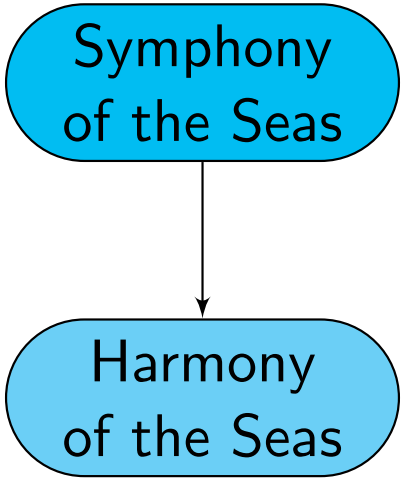

PASSENGERS OVER TIME
6000
4000
2000
0
1912
1940
1972
1996
2002
2004
2006
2009

Cruceros más grandes del mundo

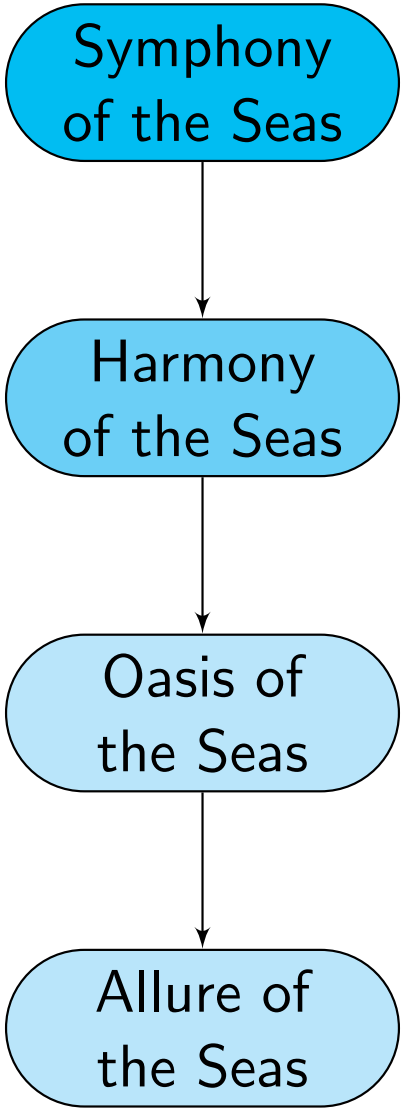
Cruceros más grandes del mundo

Symphony of the Seas

Cruceros más grandes del mundo



Cruceros más grandes del mundo



Cruceros más grandes del mundo

Cruceros más grandes del mundo

Reparaciones

CARNIVAL SUNRISE

Reparaciones

CARNIVAL SUNRISE

$$\text{Bahamas} \xrightarrow[\text{15 días}]{} \text{Astilleros de Cádiz} \xrightarrow[\text{1 ó 2 meses}]{} \text{Reparacion} \xrightarrow[\text{1 ó 2 días}]{} \text{Barcelona}$$

Cola de pato

Teatro

Reparaciones

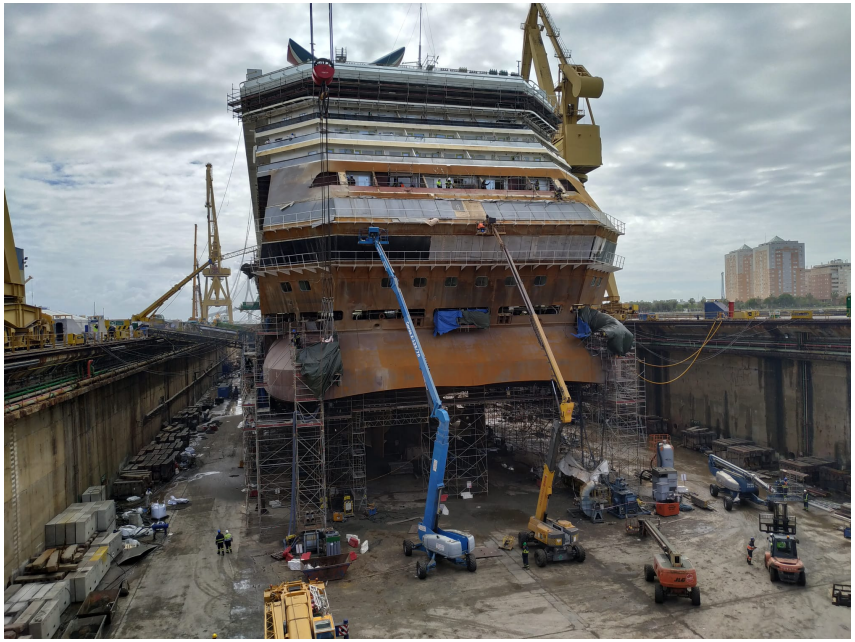


Figure: Construcción cola de pato

Reparaciones

(a) Teatro reformado

(b) Pintura casco

Reparaciones

OASIS OF THE SEAS

Figure: Oasis of the seas

¡GRACIAS POR SU ATENCIÓN!

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