



A fountain fit for a Czar

Chatsworth's Emperor Fountain

Why was it built?

When the 6th Duke believed that Czar Nicholas, Emperor of Russia, might visit Chatsworth he decided to impress him with a fountain higher than the one at Peterhof, the Czar's palace in Russia.

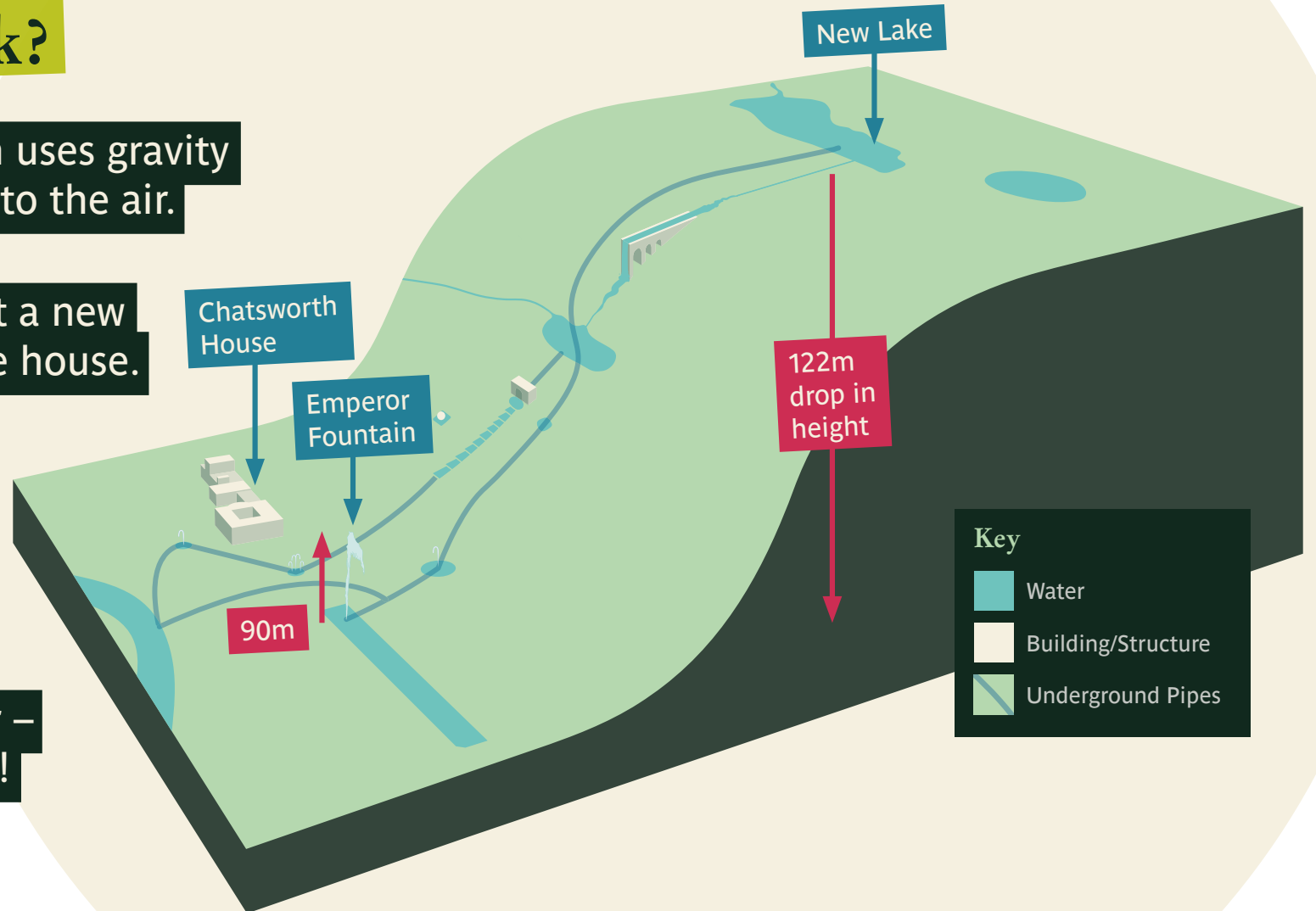
Peterhof Palace

How does it work?

The Emperor Fountain uses gravity to pump water high into the air.

Joseph Paxton built a new lake high above the house.

Water flows 122m downhill through an iron pipe, building up enough pressure to force a fountain of water high into the air – ingenious engineering!



The Emperor Fountain still works today

The highest it ever reached was 90m (300ft) – that's the height of 18 giraffes standing on top of each other!

Today, on a good day, it can reach up to a height of 60m (200ft).



(It was five giraffes high, 30m (100ft), on this day)