Unidentified ships approaching Earth!

(show ships)

They appear to be frog-like. Let me put on my frog suit to communicate with these peculiar creatures!

(put frog suit)

That’s better! Let’s see if they are of any threat…

(frog communicate)

It looks like they have been exiled from their planet, and are looking for a new home.

Well, we can’t just let them hang about in outer space. Besides, it’s not often we are visited by sentient beings, and frogs at that!

(frog communicate)

They are expressing their gratitude, and are ready to cooperate.

Well, why not? Let’s give these hapless frogs some proper homes to settle in. There’s still plenty of room here on Earth.

Now commencing operation: Project Bloom – A quest for home!

Overworld 1

This is the map of Earth. The frogs are very particular with their choice of habitat.

We’ll need to determine where to place the frogs by looking at their criteria.

(show criteria)

In this case, we need to find a place where it’s fairly warm and humid.

(show overworld modal)

On the lefthand side of the map are the latitude values. This is the angular distance relative to the earth’s equator (middle of the map).

Now let’s view the temperature readings of Earth.

(toggle temperature)

As you can see, the temperature is consistently hot starting from the equator, and gets colder further north or south.

(show sun illustrate)

By looking at the latitude, we can determine that the further north or south we go, the colder it will get.

(hide sun illustrate)

(toggle humidity)

Next is the humidity readings of Earth. The percentage tells us how much water vapor is present on air.

Notice how humidity tends to be higher in large forest and jungle areas, such as the Amazon rainforest.

(toggle none) (show atmosphere toggle)

Now go ahead and find a place for the frogs to land. Simply click around the map to find the spot.

Remember to make use of the temperature and humidity reading.

Hint: we are looking for a temperate climate, perhaps somewhere in North America...

(upon investigation error reading close)

Looks like the temperature is too low. We will need to change the time of the year to land on this spot.

Since the earth rotate at a slightly tilted axis around the sun, the atmosphere can change throughout the year.

Why don’t we adjust the time by selecting a different season.

(upon investigation)

Now you just need to pick a particular location on the land for the frogs.

When the majority of the frogs approve, we can finally launch the expedition!

Colony 1

In this scenario, we will be building the frog’s colony during summer.

Where it is mostly sunny, with some rain here and there. A pleasant weather to be out and about!

(weather forecast)

Here’s the weather forecast during this expedition!

The weather describes the atmospheric condition of a region within a period of time: how cloudy, how humid, and is it going to rain?

Remember that the climate describes the weather pattern in a region annually across 30 years or more.

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| So the weather we will be experiencing here over a few days will be vastly different several months later. |

(colony ship enter)

Our goal for this expedition is to populate the place with as many frogs as possible. We do this by deploying houses.

You can deploy a house by pressing the ‘home’ icon below, then pressing the ‘house’ that appears above it.

Go ahead and place one in a suitable location.

(house placed)

Excellent! Now that a house has landed, our population has increased by one!

In order to increase the population further, we are going to need food. These peculiar frogs seem to only eat a certain type of flower that they grow.

To grow this flower, you just need to place it somewhere suitable much like you did with the house.

You’ll then need a gardener to nurture the flower. Simply click on the frog with a hat portrait when the green arrow appears.

(second house placed)

Now that we have a couple of houses placed, we will now need to sustain them with water and power.

To build these structures, simply press on the ‘gear’ icon at the bottom.

Press the water tank for water, and press the solar panel for power. Remember to place each of them to proceed!

(both placed)

With both the water tank and solar panel placed, you’ll need an engineer to build them.

To summon an engineer, press on the frog with a yellow hard helmet portrait when the green arrow appears.

(engineer summoned)

(pause game)

The engineer will now proceed to build both the water tank and the solar panel.

That’s pretty much it! Remember to keep an eye out for each house’s needs as the population grows.

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| If you’re feeling confident, you can speed up time by pressing on the ‘play’ button found in the upper right corner of the screen. |

(vine appear) (pause)

Watch out! It looks like weeds are starting to grow on one of the structures!

Though the weather is ideal for the frogs, unfortunately so it will be for these invasive plants.

A gardener should be able to take care of these weeds!

(mole appear) (pause)

A mole! These creatures don’t see very well, so they mistake our structures as something to dig through.

You’re going to need a hero frog to deal with these moles!

To summon a hero frog, simply click on the funny-looking frog with a red cape when the green arrow appears.

If your frog summon bar is full, you can unsummon some of the frogs by pressing on their portrait when the red arrow appears.

Overworld 2

Our next batch of frogs are keen on living in a windy environment, as well as hot and humid.

In that case, we’ll need to check the wind readings of Earth.

(turn on wind)

(toggle to wind attr)

Notice the winds forming into a swirly motion? These are tropical cyclones, sometimes referred to as: hurricanes, or typhoons.

(toggle to temp attr)

As you can see, the warm energy from the ocean rises, forming low pressure from below. This causes more air to fill in.

The air filling in must then rise because of the heat, accumulating water which release more heat.

This cycle continues as the wind travels, building up more speed along the way.

(toggle off attr)

Anyhow, let’s find places where the wind might by strong. Try looking for areas prone to hurricanes along coastal regions.

Remember to check the different seasons to see how the wind changes to various positions across Earth.

This time around, there are more than one hotspot to discover on the map. Only one of them will match with the frogs’ criteria.

Colony 2

(intro)

Looks like we’ve landed in a tropical climate. Where it’s hot and humid all year round with plenty of rain.

Though it looks like we’re getting more rain than usual, something is afoot...

Perhaps we should take a careful look at the weather forecast.

(mushroom) (pause)

Uh oh, a mushroom has grown near one of our structures!

Since there's a lot of moisture in the region, the fungi that grow these mushrooms are able to absorb a lot of nutrients.

Their spores appear to be harmful to the frogs! Make sure to have a gardener around to take care of them!

(fly) (pause)

Look out, it's a beetle!

Due to the consistent warmth in tropical climates, insects are able to thrive throughout the year.

These troublesome insects can be dealt with by a hero frog. Make sure to have one around to rout them out.

(hazzard)

Take cover, a hurricane is heading our way!

As mentioned before about hurricanes: the wind speed that has accumulated over low pressure from the surface has reached critical speed.

Our frogs must take cover. Fortunately, their structures are made of sturdy stuff, causing it to withstand the staggering winds!

However, along with strong winds, the water that is released from the storm will cause flood across the land.

Make certain that no important structures are within the flooding area, or they will get damaged.

Overworld 3

Our next batch of frogs are looking for a warm place with low humidity, and some nice breeze.

In that case, we should look for a desert climate!

(investigation)

Now it may seem that these frogs would want to bask in the sun all day long.

However, they will still need some water source to sustain themselves!

Look for a suitable place where there are underground waters that we can extract.

Colony 3

The desert climate…This dry and hot environment will leave us with little to no water for our plants.

Fortunately, there are underground waters we can extract from to make this land more habitable.

(house spawned)

Since the ground here is not ideal for growing plants, we will have to do a bit of landscaping.

First, we will need to build a water tank where water is accessible.

(landscaping)

Now that we have a water source, summon a landscaper to irrigate the land.

(landscaping finished)

Excellent! Now that there’s an irrigated land, you can now place a plant on it. Do this now.

We can proceed onward once we have increased the population.

Overworld 4

This is our final batch of frogs, and they seem eager to settle in the highlands where it’s cold and snowy.

Why don’t we look for a spot in the mountainous area.

(investigate)

Although we are in an area that is mostly a tropical climate, remember that altitude can also affect the climate.

Go further up where the air pressure and temperature are lower.

Colony 4

The highland climate is quite comfy despite the consistent cold weather. We’ll need more than usual power to keep our houses warm.

Just like in the desert climate, the ground here is not ideal for plants to grow, so landscaping will be crucial.

(house spawned)

Since we can’t place plants on these rigid grounds, we’ll once again need the help of landscapers to shape the land.

You won’t have to worry about where to place the water thank this time around.

We will be able to proceed once the frog population has increased.

(pop increased)

Excellent! With the habitation well established, we can proceed to complete this final expedition!

(burrow spawned)

Uh oh! A cave has emerged from the ground!

Critters will keep emerging from these caves so long as it remains. Fortunately, an engineer can demolish it.

Make sure to also have a hero frog around to deal with the critters, while the engineers do their work!

End

Congratulations! Project Bloom has been a great success! The space frogs are very grateful, and will return the favor in the near future!

Thank you for playing!

Synopsys

A group of space frogs have been exiled from their planet, and are seeking refuge. Lend a hand for these poor hapless creatures, and they shall be forever grateful. Make use of your knowledge about climate and weather to find them a suitable home across Earth!