The Future Tropical Forest Ecosystem
The Future Tropical Rainforest

Objectives

To gain a greater appreciation of the level and rate of deforestation in tropical rainforest areas

To be able to produce a map of spatial data using a GIS package

To describe and explain the relationship between deforestation and other variables
768,935 km² of tropical rainforest has been lost from the Brazilian Amazon since 1970.

How many countries the size of England could you fit in this area?
768,935 km² of tropical rainforest has been lost from the Brazilian Amazon since 1970.

How many countries the size of England could you fit in this area?

(England = 130,395 km²)
The Future Tropical Rainforest

768,935 km$^2$ of tropical rainforest has been lost from the Brazilian Amazon since 1970

= 6 countries the size of England
7,989 km$^2$ of tropical rainforest was lost from the Brazilian Amazon in 2016.

How many football pitches could you fit in this area?
The Future Tropical Rainforest

7,989 km$^2$ of tropical rainforest was lost from the Brazilian Amazon in 2016

How many football pitches could you fit in this area?

A standard football pitch measures 64m x 100m
7,989 km² of tropical rainforest was lost from the Brazilian Amazon in 2016

= 1,248,281 football pitches
Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

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1,248,281 football pitches a year

(divide by 365)
Assuming deforestation was happening at the same pace, 24 hours a day and on every day of the year, how many football pitches are we losing every hour in the Brazilian Amazon alone?

\[
1,248,281 \text{ football pitches a year} \div 365 = 3,420 \text{ football pitches a day}
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3,420 football pitches a day

= 142 football pitches an hour

(divide by 24)
Go onto ArcGIS Online:
The Future Tropical Rainforest

Select ‘Map’: 

[Image of ArcGIS website]
The Future Tropical Rainforest

Drag the **CSV data file** onto the map:
The Future Tropical Rainforest

Zoom out to a level where you can see Brazil most clearly:
The Future Tropical Rainforest

Changing the attributes changes the data displayed:
The Future Tropical Rainforest

The default presentation method is proportional circles:
The Future Tropical Rainforest

Selecting ‘Counts and Amounts (Color)’ changes the map to choropleth shaded dots:
The Future Tropical Rainforest

Selecting ‘Options’ and ‘Symbols’ gives you the ability to change the size, shape and colour palette of the choropleth shapes:
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Select ‘Add attribute’ to compare more than one variable from the CSV file:
The Future Tropical Rainforest

In this case, size and colour represent the two different variables:
The Future Tropical Rainforest

Experiment with changing the base map to make the data stand out, as well as with scale, colour and attribute selected:
The Future Tropical Rainforest
The Future Tropical Rainforest

Is it true that deforestation decreases with increasing HDI?
The Future Tropical Rainforest

What makes a good pie chart?
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Easy to read?
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Clear categories?
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Causes of deforestation in a Tropical Rainforest

Why is this not a good form of data presentation?

- Cattle Ranching
- Small scale agriculture
- Large scale agriculture
- Logging
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- HEP
- Fuelwood collection
The Future Tropical Rainforest

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Which country has arguably been most destructive of its rainforest?
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Which country has arguably been most protective of its rainforest recently?
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Evaluating Pie Charts
The Future Tropical Rainforest

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Causes of deforestation in a Tropical Rainforest

Why is this not a good form of data presentation?
The Future Tropical Rainforest

Causes of deforestation in a Tropical Rainforest

- Cattle Ranching
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Deforestation in different countries
The Future Tropical Rainforest

Which measure shows the greatest concern looking back at how countries have treated their rainforest?
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<td>4.20%</td>
<td>7.50%</td>
<td>3,394,108</td>
</tr>
<tr>
<td>Venezuela</td>
<td>56,531,450</td>
<td>62.80%</td>
<td>1.80%</td>
<td>-13.30%</td>
<td>1,376,709</td>
</tr>
<tr>
<td>Angola</td>
<td>55,315,474</td>
<td>44.40%</td>
<td>2.60%</td>
<td>19.40%</td>
<td>1,740,011</td>
</tr>
<tr>
<td>Mexico</td>
<td>53,182,952</td>
<td>27.40%</td>
<td>3.70%</td>
<td>-9.90%</td>
<td>2,587,661</td>
</tr>
</tbody>
</table>
Which country has arguably been most protective of its rainforest recently?
### The Future Tropical Rainforest

<table>
<thead>
<tr>
<th>Country</th>
<th>Area of forest cover (km²)</th>
<th>Forest Cover</th>
<th>Loss as % of 2004 cover</th>
<th>Rate of deforestation change 2004 - 2014</th>
<th>Loss 2001-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>519,191,664</td>
<td>61.90%</td>
<td>4.90%</td>
<td>-6.00%</td>
<td>38,336,733</td>
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<tr>
<td>DR Congo</td>
<td>199,224,295</td>
<td>87.10%</td>
<td>3.20%</td>
<td>22.90%</td>
<td>7,977,010</td>
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<tr>
<td>Indonesia</td>
<td>160,978,096</td>
<td>85.80%</td>
<td>9.60%</td>
<td>2.40%</td>
<td>18,507,771</td>
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<tr>
<td>Colombia</td>
<td>81,779,083</td>
<td>72.60%</td>
<td>2.50%</td>
<td>-9.70%</td>
<td>2,822,694</td>
</tr>
<tr>
<td>Peru</td>
<td>78,069,516</td>
<td>60.90%</td>
<td>2.10%</td>
<td>16.40%</td>
<td>1,949,886</td>
</tr>
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