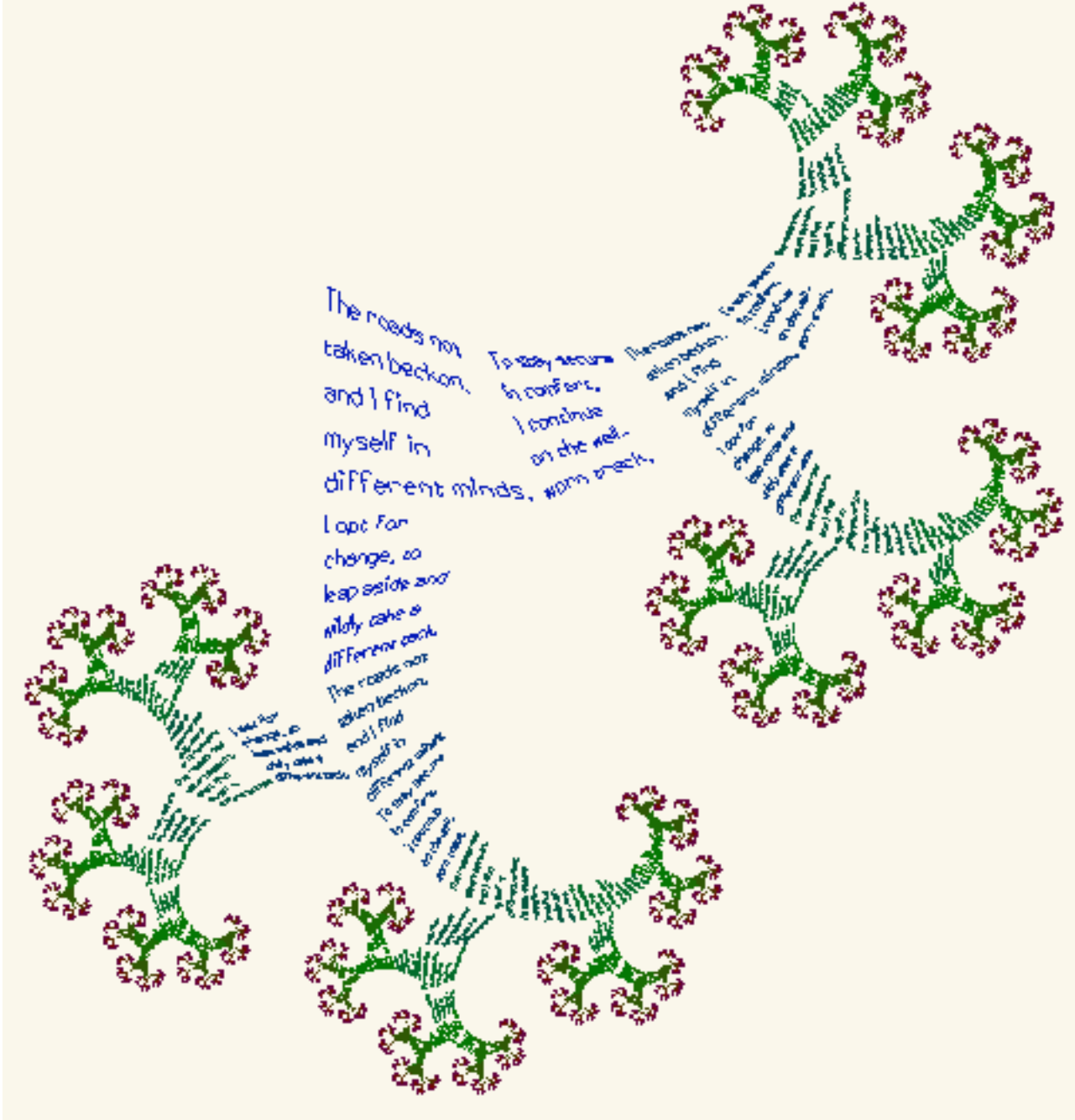


Conditional Paths
Passing Parameters
Working With The Date Object

Forking paths



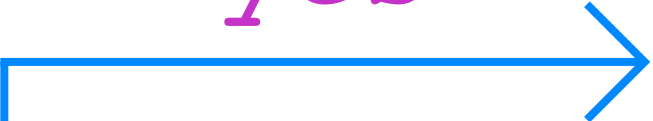
Scripts can change their course based on reactions to external factors. Meaning a single set of instructions can include multiple routes and outcomes.

if...else Statements



?

yes



no



JavaScript if/else statements works just like conditional sentences in spoken language. For example "If it rains, the picnic will be cancelled".

Setting up the script

```
var announcement = "The picnic will begin at 2pm";

function picnicUpdate() {
    console.log(announcement);
}

picnicUpdate(); //returns: The picnic will begin at 2pm
```

Adding if...else

```
var announcement;
var rain = true;

function picnicUpdate() {
  if (rain == true) {
    announcement = "The picnic is cancelled due to rain";
  }
  else {
    announcement = "The picnic will begin at 2pm";
  }
  console.log(announcement);
}

picnicUpdate(); //returns: The picnic is cancelled due to rain
```

Translating "If it rains, the picnic will be cancelled" into JavaScript.

```
var announcement;

function picnicUpdate(weatherCondition) {
  if (weatherCondition == "rain") {
    announcement = "The picnic is cancelled due to rain";
  }
  else {
    announcement = "The picnic will begin at 2pm";
  }
  console.log(announcement);
}

picnicUpdate("sun"); //returns: The picnic will begin at 2pm
picnicUpdate("rain"); //returns: The picnic is cancelled due to rain
```

```
var announcement;

function picnicUpdate(weatherCondition, totalGuests) {
  if (weatherCondition == "rain") {
    announcement = "The picnic is cancelled due to rain";
  }
  else {
    announcement = "The picnic will begin at 2pm. " +
totalGuests + " people will be in attendance";
  }
  console.log(announcement);
}

picnicUpdate("sun", 12); //returns: The picnic will begin at 2pm.
12 people will be in attendance
picnicUpdate("rain", 6); //returns: The picnic is cancelled due to
rain
```

else if

```
var announcement;

function picnicUpdate(weatherCondition, totalGuests) {
  if (weatherCondition == "rain" && totalGuests >= 10) {
    announcement = "The picnic is cancelled due to rain";
  }
  else if (weatherCondition == "rain" && totalGuests < 10) {
    announcement = "The picnic is moving inside with " +
totalGuests + " guests";
  }
  else {
    announcement = "The picnic will begin at 2pm. " +
totalGuests + " people will be in attendance";
  }
  console.log(announcement);
}

picnicUpdate("sun", 12); //returns: The picnic will begin at 2pm.
12 people will be in attendance
picnicUpdate("rain", 6); //returns: The picnic is moving inside with
6 guests
```

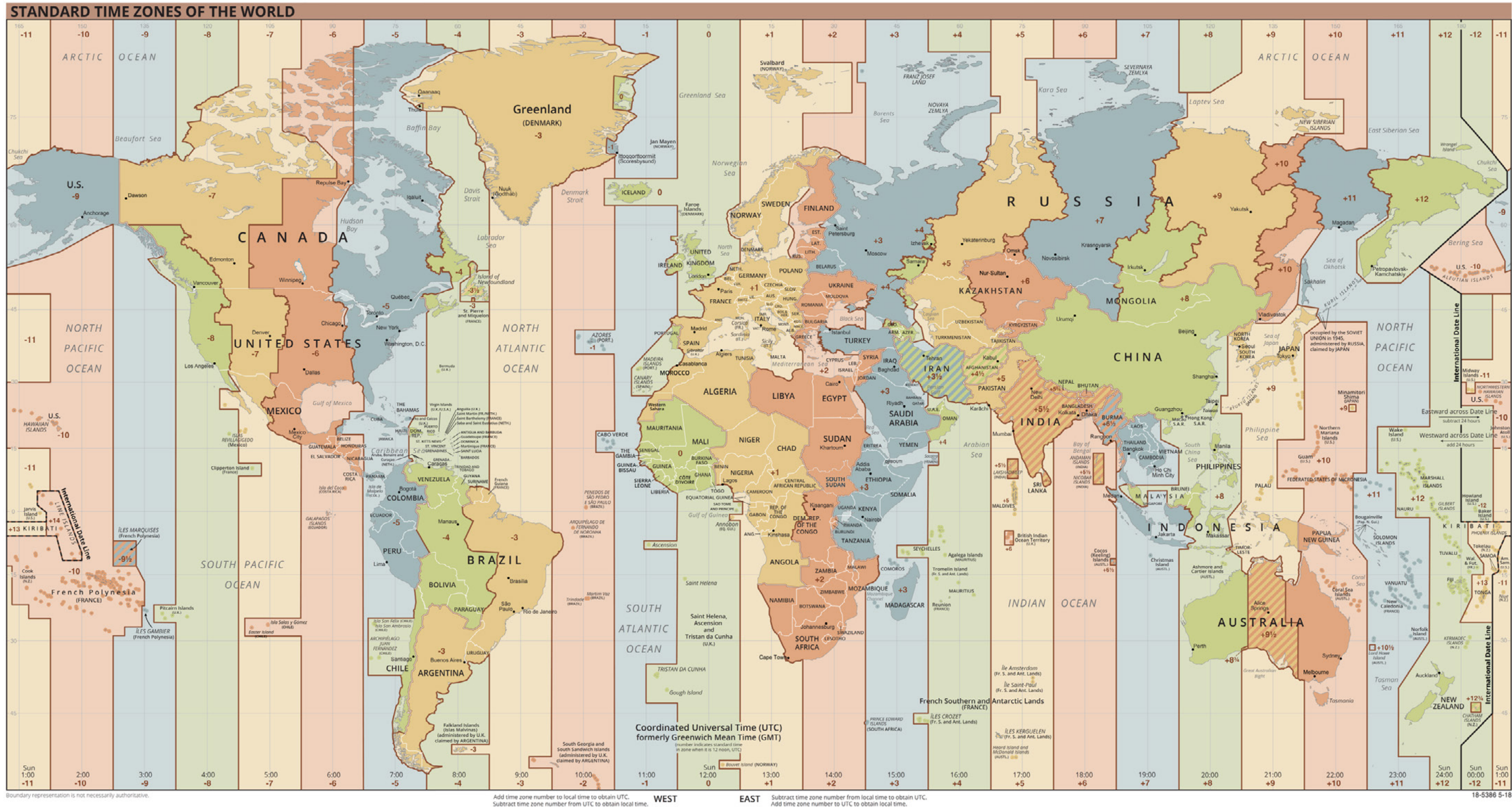



Unix time passed 1 000 000 000 seconds on 2001-09-09T01:46:40Z. It was celebrated in Copenhagen, Denmark at a party held by [DKUUG](#) (at 03:46:40 local time).

 [More details](#)

Unix time (also known as Epoch time, Posix time, seconds since the Epoch, or UNIX Epoch time) is a system for describing a point in time. It is the number of seconds that have elapsed since the Unix epoch, excluding leap seconds. The Unix epoch is 00:00:00 UTC on 1 January 1970 (an arbitrary date).

The JavaScript Date() Object



A JavaScript date is fundamentally specified as the number of *milliseconds* that have elapsed since midnight on January 1, 1970, UTC.

Reading values out of the Date Object

```
var date = new Date();  
//Date Tue Oct 19 2021 18:58:26 GMT-0400 (Eastern Daylight Time)  
  
var hours = date.getHours();  
//18  
  
var minutes = date.getMinutes();  
//58  
  
console.log("the time was " + hours + ":" + minutes);
```

Pulling out the values Hours and Minutes as separate variables, we can create a string that reads the time "18:58".

Working with zero base month values

```
var date = new Date();  
//Date Tue Oct 19 2021 18:58:26 GMT-0400 (Eastern Daylight Time)  
  
var months = [ 'January', 'February', 'March', 'April', 'May',  
              'June', 'July', 'August', 'September', 'October', 'November',  
              'December' ];  
  
var monthName = months[date.getMonth()];  
  
console.log("Date value as number: " + date.getMonth());  
console.log("Date value as name: " + monthName);
```

Converting the month "9" to the name of the month "October".

Converting to Unix Epoch Time

```
var date = new Date();  
//Date Tue Oct 19 2021 18:58:26 GMT-0400 (Eastern Daylight Time)  
  
var date.getTime();  
//1634684306349 milliseconds since midnight on January 1, 1970  
  
Math.floor(date.getTime()/1000.0);  
//1634684306 seconds since midnight on January 1, 1970 (UNIX epoch)
```

Divide the milliseconds by 1000 to convert to seconds.

Why use Unix time?

March
18,
2015
@ 10:35AM

<

August
31,
2021
@ 5:17PM

???

1426689300

<

1630444620

true

When the date is a single number value we are able to more easily compare different times against each other.

```
var date = new Date();
var hours = date.getHours();

if (hours > 5 && hours < 12) {
    document.body.style.backgroundColor = "yellow";
    console.log("good morning");
}
else if (hours >= 12 && hours < 18) {
    document.body.style.backgroundColor = "orange";
    console.log("good afternoon");
}
else {
    document.body.style.backgroundColor = "black";
    console.log("good night");
}
```

