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| var countries;  var table;  var wars = [];  function preload(){  table = loadTable("data/Inter-StateWarData\_v4.0-3.csv", "csv", "header");  }  function setup(){  var canvas = createCanvas(windowWidth, windowHeight);  frameRate(30);  strokeCap(SQUARE);      table.getRows().forEach(function(row){  var warName = row.getString("WarName");  //print(warName);    var participantName = row.getString("StateName");  var startYear = int(row.getString("StartYear1"));  var startMonth = int(row.getString("StartMonth1"));  var startDay = int(row.getString("StartDay1"));  var endYear = int(row.getString("EndYear1"));  var endMonth = int(row.getString("EndMonth1"));  var endDay = int(row.getString("EndDay1"));    var startDate = new ODate(startYear, startMonth, startDay);  var endDate = new ODate(endYear, endMonth, endDay);  var participant = new Participant(participantName, startDate, endDate);    /\* search for a war with this name in the array \*/  var war = getWar(warName);  if(war == "false"){  //create a new war  var myWar = new War(warName);  myWar.participants.push(participant);  wars.push(myWar);    }else{  //fill the existing war with new data  war.participants.push(participant);  }  });      function getWar(name){  for(var i=0; i<wars.length; i++){  var war = wars[i];  if(war.name == name){  return war;  }    }  return "false";    }    }  function draw(){  background(0);  noFill();    stroke(255);  strokeWeight(1);    var y = 0;  wars.forEach(function(war){  war.participants.forEach(function(participant){    var startDecimal = getDecimalDate(participant.startDate);  var endDecimal = getDecimalDate(participant.endDate);      var x1 = map(startDecimal, 1823, 2003, 0, width);  var x2 = map(endDecimal, 1823, 2003, 0, width);      line(x1, y, x2, y);  y+=1;    });  y+=3;  stroke(255, 0, 0);  line(0, y, width, y);  stroke(255);  y+=2;  });      noLoop();  }  var ODate = function(AAAA, MM, DD){  this.year = AAAA;  this.month = MM;  this.day = DD;    }  function getDecimalDate(date){  return date.year + (date.month-1)/12 + (date.day-1)/365;  }  var War = function(name){  this.name = name;  this.participants = [];    }  var Participant = function(country, startDate, endDate){  this.country = country;  this.startDate = startDate;  this.endDate = endDate;  }  function windowResized(){  resizeCanvas(windowWidth, windowHeight);  } | Var  Var  Array  Get the dataset (call TABLE) and for each of its rows create:   * A variable from a string   + getString   + int: the information that is going to come is a number * create a new date based in the sum of three variables * create a new object that has three types of information inside   Search for a war with this name in the array  The variable war uses the function getWar:   * getWar searchs in all the wars, if the name of the war is the same, that war is also returned (otherwise it only takes into account the first entry of the war (and a war has as many entries as participants) * if get war returns as false, then getWar creates a new object War based in the warName, and each participant is pushed into it creating an array. If not, this process is also done.   Function draw  Var y = 0 (everything at the top)  For each war, and for each participant:   * translate date into a number * x1 is based in startDecimal (date transformed), its range is from 1823-2003 but the ‘drawing’ range is 0-width   + var x1 = map(data, minCurrentRange, maxCurrentRange, minNewRange, maxNewRange)   Stop at some point |