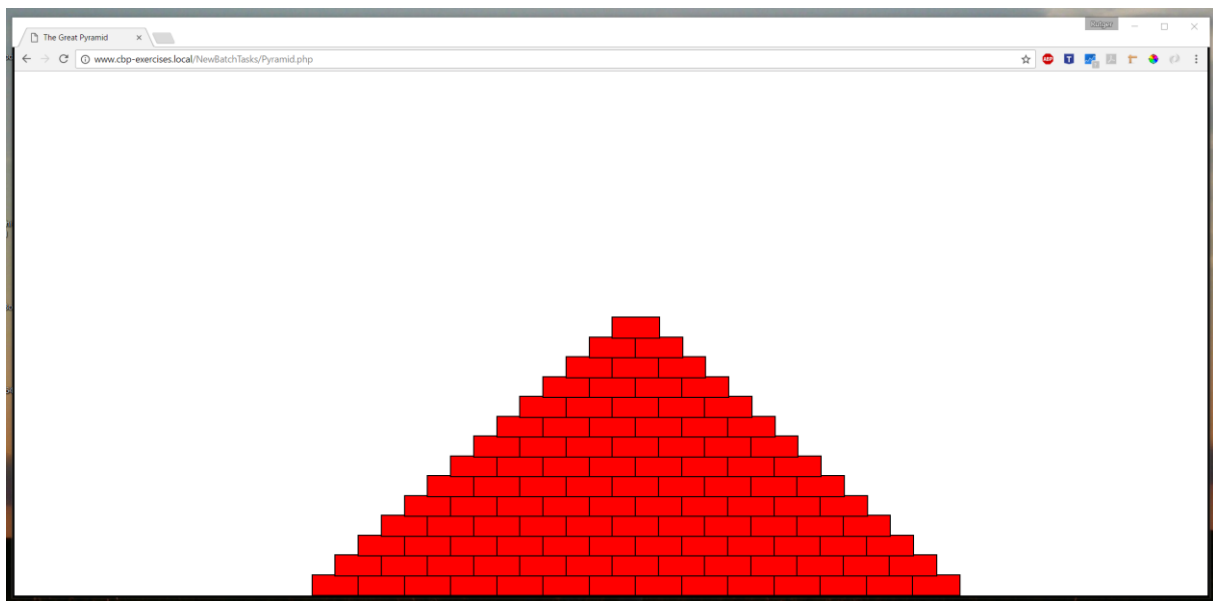


Task 1. Building the great pyramid of Jan Polak

Inline PHP, HTML and inline CSS.

Around 3.000 B.C. the Egyptians started building the great Pyramids to honour their great pharaoh leaders. Building a pyramid costed many hours and lives. Fortunately, nowadays it is much easier to build pyramids with your coding skills.

To honour our great leader Jan Polak we are going to build him a great pyramid using our newly learned PHP, HTML and CSS skills. We will be using operators, conditions, loops, variables and much more. The result will look like this:



Some of the properties of the great pyramid of Jan Polak:

- **The bottom layer of the pyramid consists out of 14 bricks.**
- **The bricks are 70 pixels wide and 30 pixels high. The color of the bricks is red and they have a solid black border that is 2 pixels wide.**
- **The center of the pyramid base layer should be 650 pixels from the left side and 0 pixels from the bottom side of the screen**

With just this information. Can you create the pyramid? If not, try to do it by using the step by step programming guide on the next page.

Step by step programming guide

1. *We start of by defining the variables that give us the sizes of the bricks to work with. Besides that we should create a variable that defines the total number of bricks in the first (bottom) layer of the pyramid. This variable also tells us of how many layers the pyramid will eventually exist (every next layer contains 1 brick less than the one below it).*
2. The second step is to identify the starting position. Where will the first brick of the pyramid be placed?
 - a. *The Y-coordinate is easy. The pyramid is built on the bottom of the screen. (hint: keep in mind that we will be using CSS to define the (fixed) position of the stones. What property can be used to position the stone at the bottom of the page in CSS?)*
 - b. *The X-coordinate is not as easy, but we can calculate it by using the information we can retrieve by calculating the width of the base of the pyramid.*
3. Now we can start building the pyramid. Start by closing the PHP-part of the page and opening the html-tags. From here one we can use inline PHP-tags to place the layers.
 - a. *The question to ask yourself: how many and what kind of loops do we need and how are these loops nested? (hint: there are two processes involved in building the pyramid. The first is laying the bricks of a row, the second is moving one row up.)*
 - b. *Inside the loop use a `<div>` and the `"style"`-attribute to give each of the bricks its specific properties. Know that inside the style attribute you can call upon PHP variables using the `"<?php ?>"`-tags. You can use the variables that are available from the beginning, but also those that you defined in the loop*