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## Typography and Geometry in an information graphic

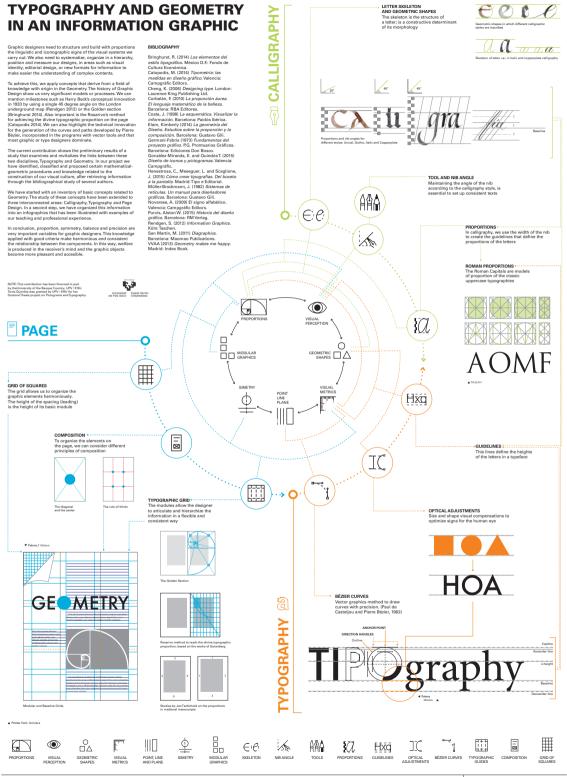
Graphic designers need to structure and build with proportions the linguistic and iconographic signs of the visual systems we carry out. We also need to systematize, organize in a hierarchy, position and measure our designs, in areas such as visual identity, editorial design, or new informative formats to make easier the understanding of complex contents.

To achieve this, we apply concepts that derive from a field of knowledge with origin in Geometry. The history of Graphic Design is responsible for referencing very significant models or processes. We can mention milestones such as Harry Beck's conceptual innovation in 1933 by using a single 45 degree angle on the London underground map (Rendgen 2012); or Rosarivo's method for achieving the divine typographic proportion on the page (Catopodis 2014). We can also highlight the technical innovation for the generation of the curves and paths developed by Pierre Bézier, incorporated in the programs with vector tools and that every graphic designer or type designer currently dominates (Bringhurst 2014).

This contribution shows the preliminary results of a study that examines and revitalizes the links between these two disciplines. Through the bibliographical study of several authors, with this project we wish to identify, classify and propose certain mathematical-geometric procedures and knowledge related to the construction of our visual culture. We will start from the proportions of the

page and later we will focus on small details of the letters, essential signs in our daily communication. We will carry out an inventory with concepts such as the golden section, the spreading of the module in the grid, the proportions of the alphabet, units of measurement, sequences, construction patterns as well as other systems of interchangeable parts (Bringhurst 2014, Cheng 2006, Elam 2014). This knowledge applied with good criteria makes the relationship between the components harmonious and consistent.

As a practical goal or a "graphic conclusion", we want to dump this information into an infographics where this content inventory is visualized based on three interconnected areas: page, calligraphy and type design. This diagram will be illustrated with examples of our teaching and professional experience and can be used as educational material and inspiration for the community of students and professionals in graphic design, type design and information design in general.





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