

Fig. 6.9 Mock-up for the implementation of the Thonet grammar

6.5 Designs

This section illustrates several designs generated in ChairDNA. The designs are divided by design styles, design types, and design collections (generated by the developer using ChairDNA), and random designs (automatically generated by ChairDNA). The implementation of designs comprehends the introduction of values, either in ChairDNA or in an Excel spreadsheet readable by ChairDNA. The majority of the designs presented in this chapter only consider an accurate precision in the overall measures of the chair (width, depth, height and seat height); the remaining values were approximately attributed, based on the 3D models available in the producer's website.⁴ Only Thonet designs regarded a precision in all values. The values of all the designs presented in this section are available in **Appendix 6.E.2**.

⁴ Some models available in the producer's website are inaccurate (e.g. in the DCW model, the back leg is not angled).

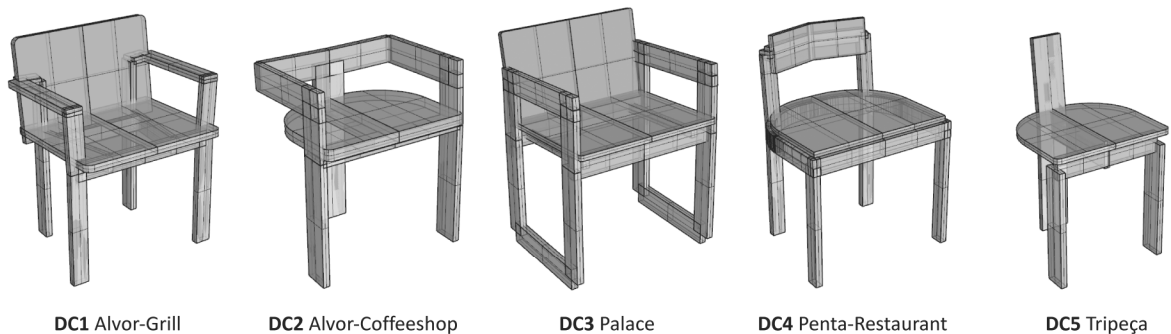
6.5.1 Design Styles

This section comprehends designs from two individual design styles (Daciano and Jasper), common and hybrid designs between those two styles, and one design family manufactured by one company (Thonet). Each style is defined by the specific grammars previously described (respectively, DCG, JCG, DJCG, DJHG and TCG). The designs include corpus designs and existing designs (documented in the chapter **Multipurpose Chair Sample**) and new designs, generated in ChairDNA and restricted to the mentioned grammars.

Daciano Designs

Daciano designs relate to the individual style of the Portuguese designer Daciano da Costa. **Fig. 6.10** illustrates eight designs generated in ChairDNA within the DCG restrictions. It includes the five designs from the corpus, one existing design and two new designs. From the analysis of the DCG and the corpus designs, qualitative characteristics of the style may be inferred. The chairs are three- and four-legged without angles or taper. The seat is either square or semi-circular and the backrest can be solid or open. The chairs do not have stretchers and the base is rarely used. The arms supports are extended from both front and back legs and the chair frame only comprises square sections.

DC Daciano Corpus



DE Daciano Existing

DN Daciano New

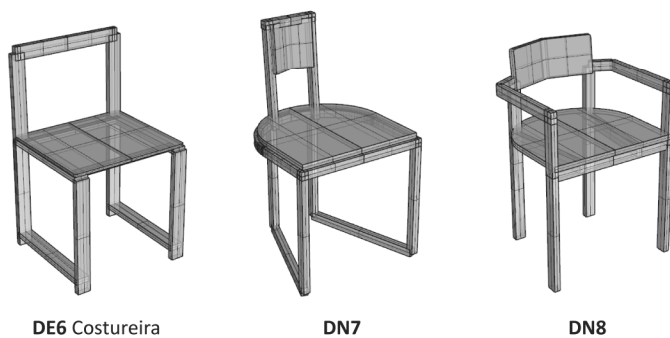


Fig. 6.10 Daciano designs generated in ChairDNA