

# Double categories and structured categories

Charles Ehresmann

EHRESMANN, C. “Catégories doubles et catégories structurées”. *C. R. Acad. Sc.* **256** (1963), 1198–1201.

## Abstract

Definition of structured categories; the particular case of double categories, which admit a **TO-DO** as a quotient category.

## 1 Double categories

| p. 1

**Definition.** We define a *double category* to be a class  $\mathcal{C}$  endowed with two composition laws, denoted  $\cdot$  and  $\perp$ , satisfying the following conditions:

1.  $(\mathcal{C}, \cdot)$  is a category, denoted by  $\mathcal{C}$ ; the right and left **TO-DO**