# Kempe Type System

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## Contents

0.1	Introduction																1
0.2	Syntax																1
0.3	Judgments.																1

#### 0.1 Introduction

This presents the Kempe type system.

## 0.2 Syntax

## 0.3 Judgments

$$\frac{\Gamma \vdash x : \alpha_{1} \cdots \alpha_{n} - -\beta_{1} \cdots \beta_{m} \gamma_{1} \cdots \gamma_{k} \qquad \Gamma \vdash y : \gamma_{1} \cdots \gamma_{k} - -\delta_{1} \cdots \delta_{l}}{\Gamma \vdash xy : \alpha_{1} \cdots \alpha_{n} - -\beta_{1} \cdots \beta_{n} \delta_{1} \cdots \delta_{l}} \qquad (Concat)$$

$$\frac{\Gamma \vdash x : \alpha_{1} \cdots \alpha_{n} - -\beta_{1} \cdots \beta_{m}}{\Gamma \vdash x : a\alpha_{1} \cdots \alpha_{n} - -a\beta_{1} \cdots \beta_{m}} \qquad (Generalize)$$