

# Colour naming across languages

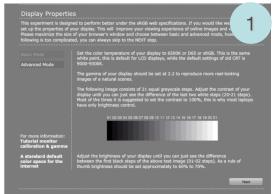
Dimitris Mylonas, Computer Science, University College London Chair of Study Group on the Language of Colour, AIC

# **An Online Colour Naming Experiment**



### **User Interface of Online Experiment**

#### **Display Properties**



#### **Viewing Conditions**



#### **Colour Vision Test**



#### Colour Naming Task



#### Cultural Background

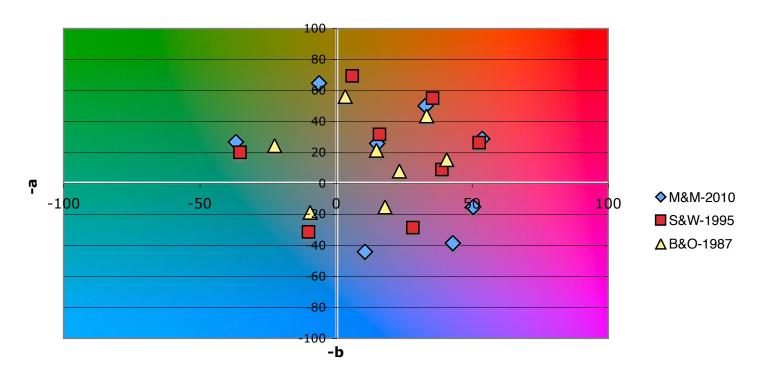


#### Communication Form

Thank you for participating. Please feel depends on the quality of your respons responses.	free to invite your friends to participate. The performance of the es and the number of observers. Below you can find a summary
If you would like to inform you for the results of this results had have the chance to win one of five high quality prints by Valero Dovel.  Name  Email  Comments	Your responses  turquise grey dark purple dark violet purple dark violet purple red like green pake like green pake like green pake like green black light violet dark bue magenta red black dark violet dark bue green pake

## **Validation of Experimental Methodology (English)**

### Location of Basic Chromatic Terms in a\* b\* plane



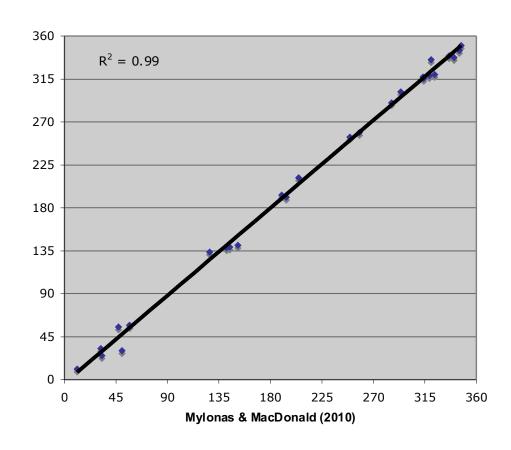
Воу	nton & Olson	Boynton & Olson	Sturges & Whitfield
Sturç	vs ges & Whitfield	vs Mylonas & MacDonald	vs Mylonas & MacDonald
mΔEab 13	3.92	21.53	14.1

### **Inter-Experimental Variability of Online Experiments**

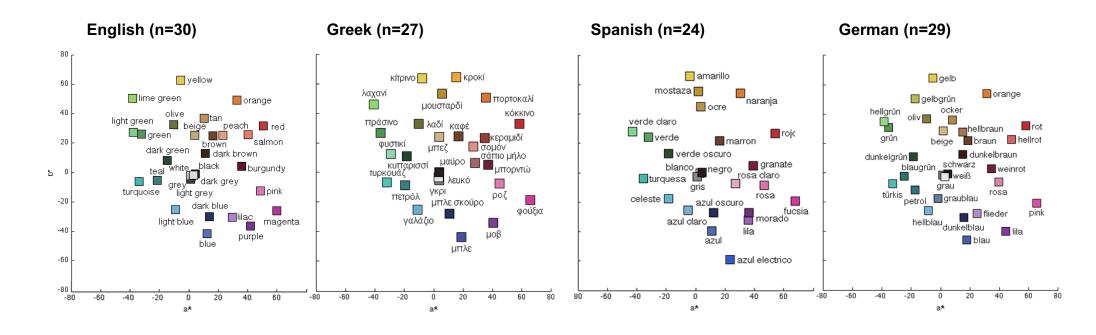
Moroney, N. (2003)
Unconstrained web-based color naming experiment.

Proc. SPIE/IS&T Conf. on Color Imaging VIII SPIE Vol. 5008, 36-46.

Top 27 Frequent Chromatic Colour Names h<sub>(ab)</sub>

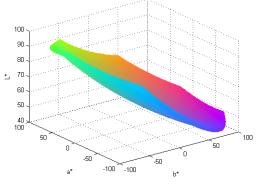


### Location of consistent color names in a\* b\* plane (EN, GR, ES, DE)



### Colour segmentation of synthetic image (EN, GR, ES, DE)





English (n=19)

yellow orange
lime green

olive tanpeach red
green beige
grey pink
light green
turquoise

blue
purple
light blue

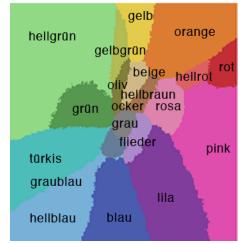
Greek (n=18)



Spanish (n=16)



German (n=20)



### Colournamer - an online colour naming model



http://colournaming.com/research

### **Future Directions**

- Use colour naming data to evaluate common colour appearance (with Fogra)
- Redesign experiment for mobile devices
- Other languages, more observers, ... more data ..., ... new collaborations ...

