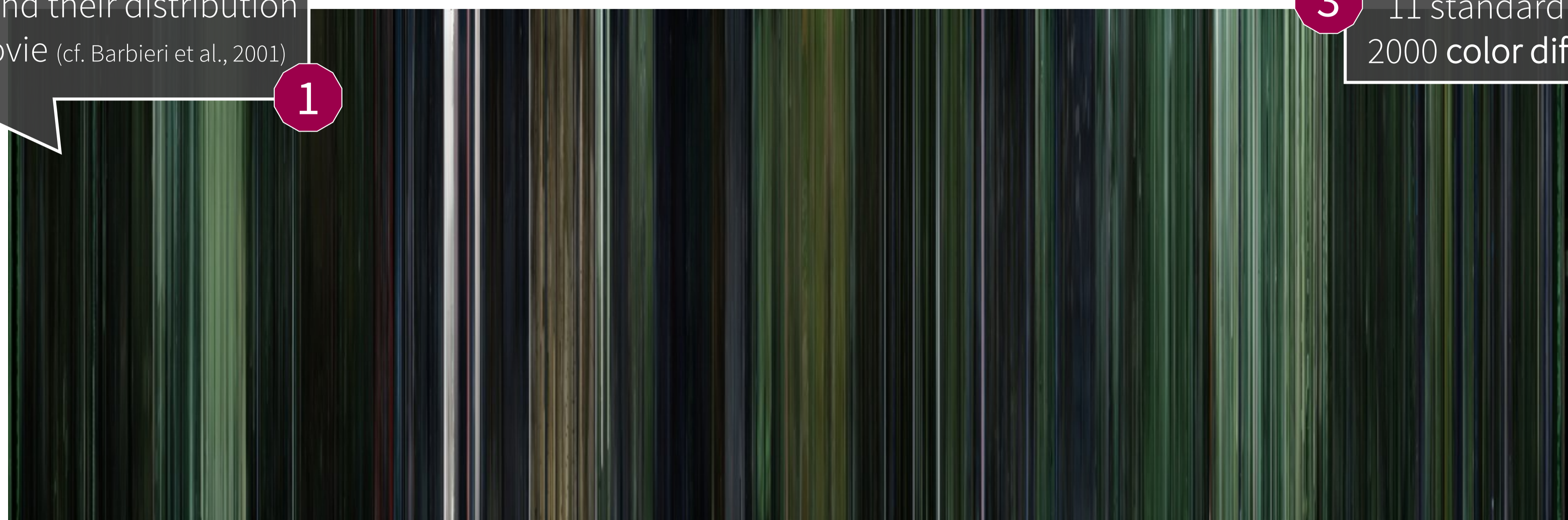


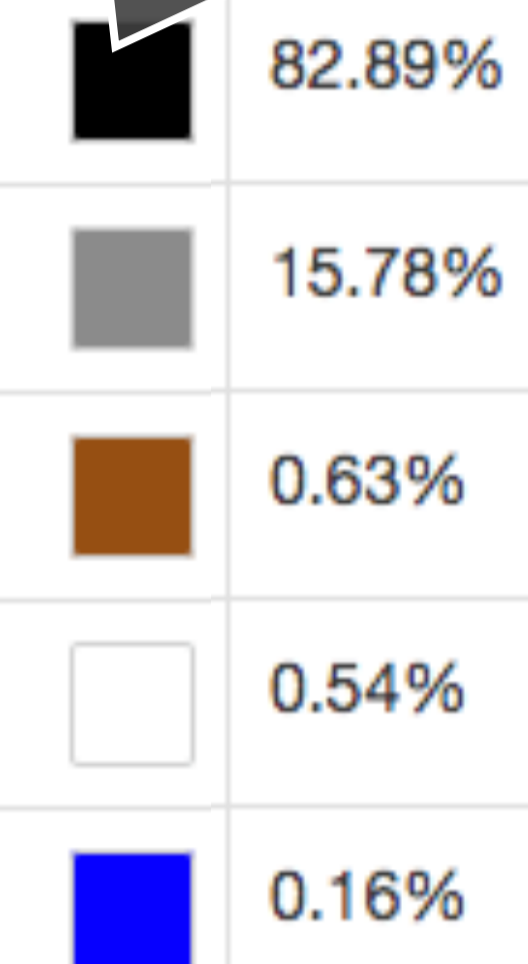
AN INFORMATION SYSTEM FOR THE ANALYSIS OF COLOR DISTRIBUTIONS IN MOVIEBARCODES

Manuel Burghardt (manuel.burghardt@ur.de), Katharina Hafner, Laura Edel, Sabrin-Leila Kenaan & Christian Wolff, Media Informatics Group, University of Regensburg

1 MovieBarcodes provide an overview of dominant colors and their distribution in a movie (cf. Barbieri et al., 2001)



3 Mapping of MovieBarcodes to a palette of 11 standard colors by means of a CIEDE 2000 color difference algorithm (color diff).



2 A large collection of user-generated MovieBarcodes is available via <http://moviebarcode.tumblr.com/>

4 Find all Sci-Fi movies from 1980 – 2005 that contain at least 15% of blue color.



Film scholar

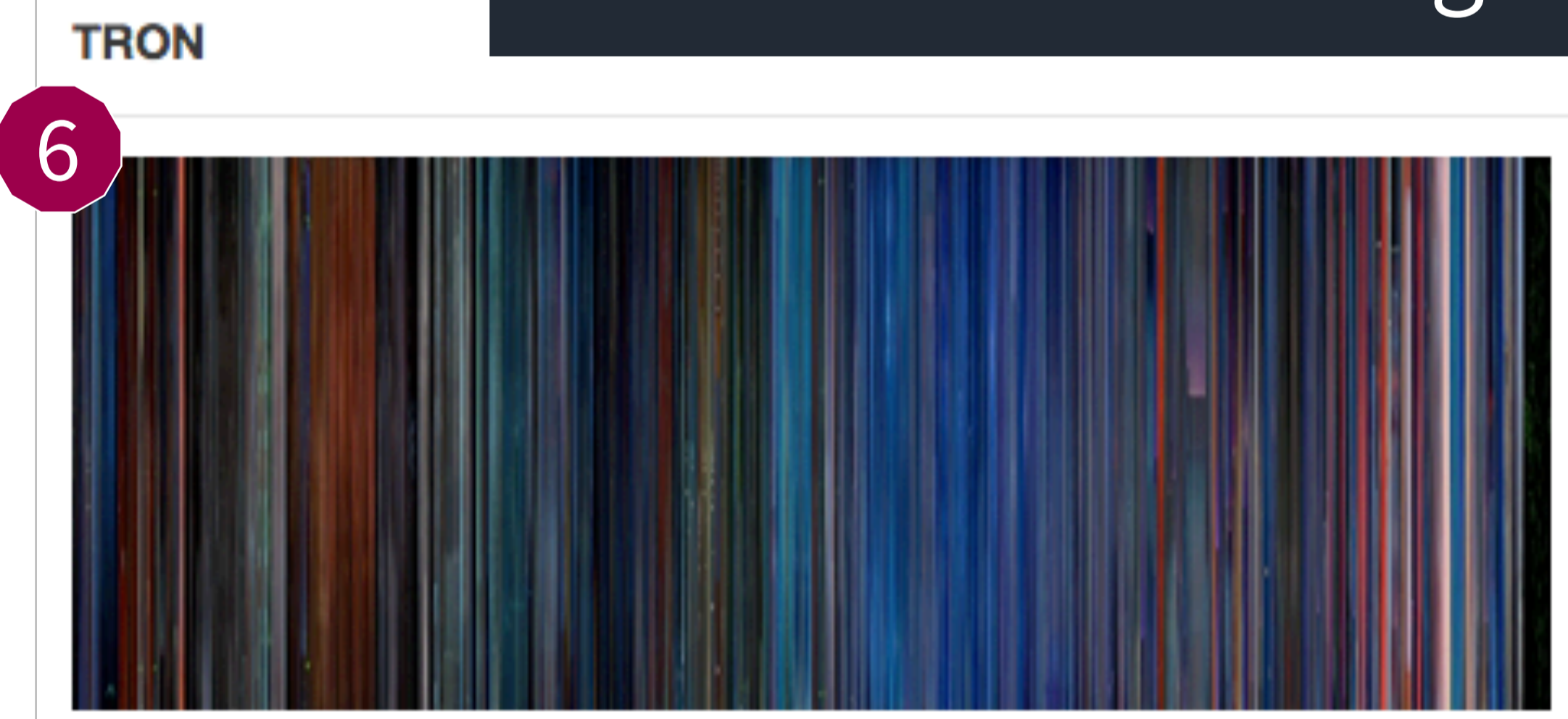


Movie database

5

colors	title	year	director	genre	country						
<table border="1"> <tr><td>black</td><td>blue</td><td>grey</td></tr> <tr><td>66.82%</td><td>19.65%</td><td>12.09%</td></tr> </table>	black	blue	grey	66.82%	19.65%	12.09%	Resident Evil: Apocalypse	2004	Alexander Witt	Action, Horror, Sci-Fi	Germany, France, UK, Canada, USA
black	blue	grey									
66.82%	19.65%	12.09%									
<table border="1"> <tr><td>black</td><td>blue</td><td>grey</td></tr> <tr><td>60.24%</td><td>20.36%</td><td>11.14%</td></tr> </table>	black	blue	grey	60.24%	20.36%	11.14%	TRON	1982	Steven Lisberger	Action, Adventure, Sci-Fi	USA
black	blue	grey									
60.24%	20.36%	11.14%									

Discover color patterns in movie genres – from distant reading to distant watching.



dominant colors:

color	percentage	color name
black	60.24%	black
blue	20.36%	blue
grey	11.14%	grey
brown	7.33%	brown
white	0.48%	white
red	0.33%	red
cyan	0.09%	cyan
orange	0.02%	orange
magenta	0.01%	magenta
green	0%	green
yellow	0%	yellow

current filters: no filters selected

blue > 15 %
 genre: Sci-Fi
 year: 1980 - 2005
 reset filters

title:

subtitles:

colors:

director:

genre: Sci-Fi (166)

year: 1980 - 2005

cast:

Subtitles from opensubtitles.org

Color information from MovieBarcodes

Metadata from imdb.com

References

Barbieri, M., Mekenkamp, G., Ceccarelli, M., & Nesvadba, J. (2001). The color browser: A content driven linear video browsing tool. Proc. of the IEEE International Conference on Multimedia and Expo, p. 808-811.

Color-diff implementation: <https://github.com/markusn/color-diff>

MovieBarcode „The Matrix (1999)“, taken from Tumblr, <http://bit.ly/2m1JPCa>

*Scientist icon by Hugo Alberto, <https://thenounproject.com/hugugolplex/>

**Database icon by Kevin Woodland, <https://thenounproject.com/kevinwoodland/>

