



Color Sampling

for SoundHound

Why?

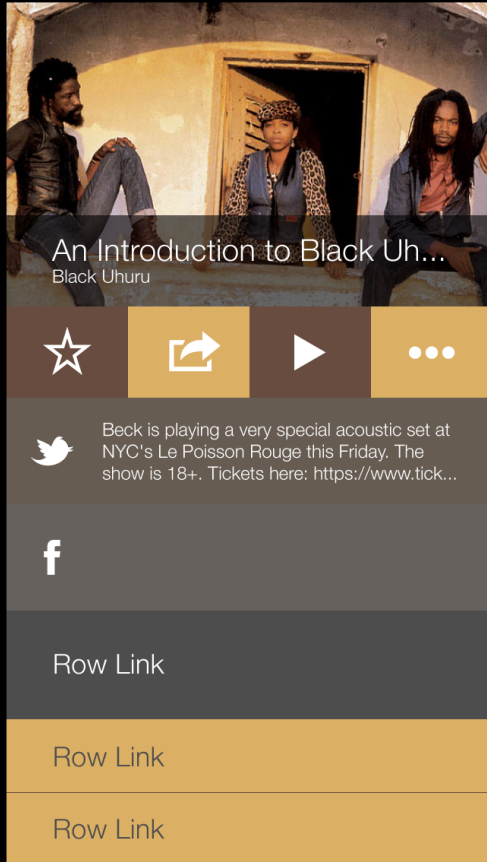
Extracting colors from subject images creates *customization and variation*.

- The app will feel tailored to each user's experience.
 - *"This screen looks like it was made just for my favorite album!"*
- Changing color schemes will prevent the app from feeling monotonous (literally).

Risks


- Dilution of identity:
 - Will changing colors impact the perception of SoundHound's ownership of the experience?
- Ugly screens:
 - Colors should be carefully controlled and used to avoid obnoxious palettes.
- Performance:
 - All sampling must be client side without an image metadata backend.


Examples



An Introduction to Black Uhuru
Black Uhuru

☆ ↗ ▶ ⋮

 Beck is playing a very special acoustic set at NYC's Le Poisson Rouge this Friday. The show is 18+. Tickets here: <https://www.tick...>



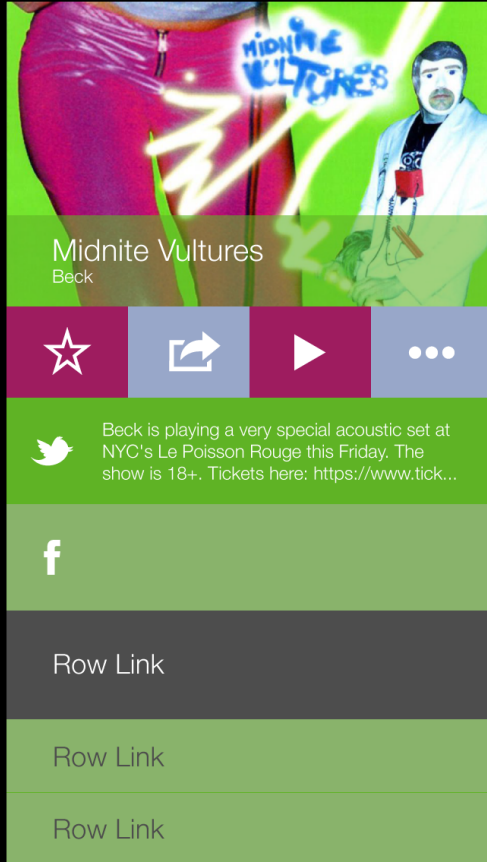
Row Link

Row Link

Row Link



Examples



Midnite Vultures
Beck

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Beck is playing a very special acoustic set at NYC's Le Poisson Rouge this Friday. The show is 18+. Tickets here: <https://www.tick...>

f


Row Link

Row Link

Row Link




Examples




The Truth (feat. Roisin and J-Li...
Handsome Boy Modeling School

LIVE LYRICS
But when you read back verbatim
What they're saying to persuade them
They realize exactly how I've played them

☆ ↗ ▶ ⋮

 Beck is playing a very special acoustic set at NYC's Le Poisson Rouge this Friday. The show is 18+. Tickets here: <https://www.tick...>



Row Link



Examples

The screenshot shows a mobile application interface for a song. At the top, there is a navigation bar with a hamburger menu icon on the left, the word "SONG" in the center, and a speech bubble icon on the right. Below the navigation bar, the title "The Secret Code" is displayed in white text on a dark background. Underneath the title is a large, close-up photograph of a man's face, likely the artist. Below the photograph, there is a green horizontal bar with the text "BY JEREMY PELT" in white. Underneath this bar is a smaller photograph showing three men playing brass instruments (trumpets and trombones) in a band. Below the photograph is a decorative horizontal bar with three colored segments: light pink, light green, and light pink. Underneath this bar is a dark brown horizontal bar with the text "LIVE LYRICS" in white. Below the dark brown bar is a white horizontal bar containing the lyrics: "But when you read back verbatim", "What they're saying to persuade them", and "They realize exactly how I've played em...". At the bottom of the screenshot is a solid dark gray bar.

SONG

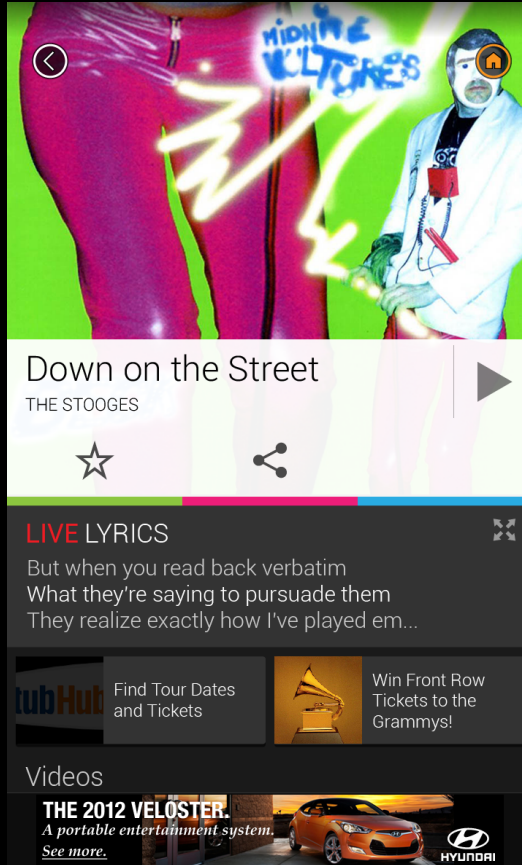
The Secret Code

BY JEREMY PELT

LIVE LYRICS

But when you read back verbatim
What they're saying to persuade them
They realize exactly how I've played em...

Examples



The screenshot shows a music player interface. At the top is a vibrant album art image featuring a man in a white jacket and a woman in a red outfit, with the text 'MIDNIGHT CULTURES' overlaid. Below the image is a white bar containing the song title 'Down on the Street' and the artist 'THE STOOGES'. A play button is on the right. Below this are icons for a star (favorites), a share icon, and a play button. The next section is a dark grey bar with the text 'LIVE LYRICS' in red, followed by the lyrics: 'But when you read back verbatim / What they're saying to persuade them / They realize exactly how I've played em...'. Below the lyrics are two promotional boxes: one for 'tubHub' with the text 'Find Tour Dates and Tickets' and another for the Grammys with the text 'Win Front Row Tickets to the Grammys!'. The bottom section is titled 'Videos' and features a promotional banner for 'THE 2012 VELOSTER. A portable entertainment system. See more.' with an image of an orange car and the Hyundai logo.

Down on the Street
THE STOOGES

☆

SHARE

LIVE LYRICS

But when you read back verbatim
What they're playing to persuade them
They realize exactly how I've played em...

tubHub Find Tour Dates and Tickets

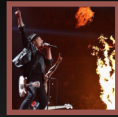
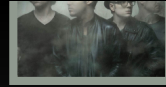
Win Front Row Tickets to the Grammys!

Videos

THE 2012 VELOSTER.
A portable entertainment system.
[See more.](#)

HYUNDAI

Examples



Possible Implementation: Two-Layer



Possible Implementation: Angular Gradient

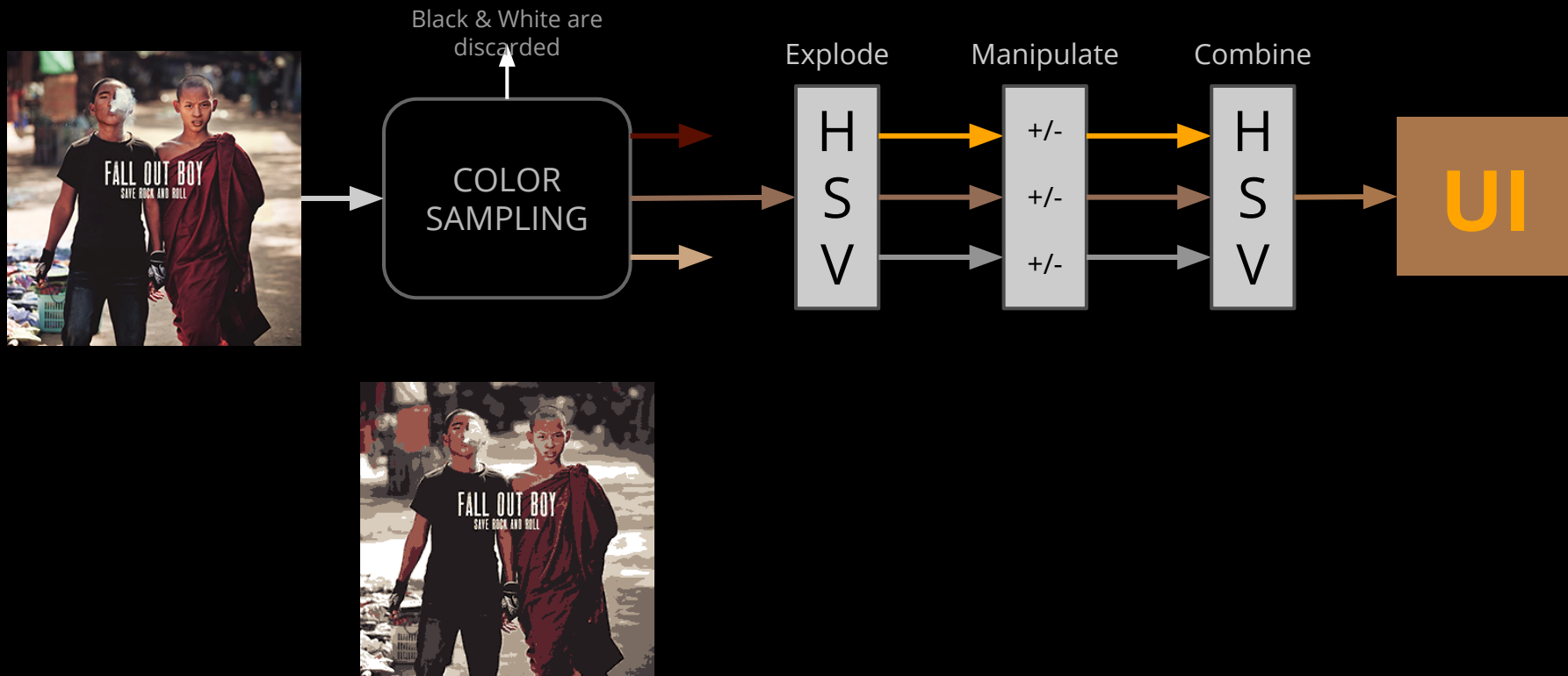


How?

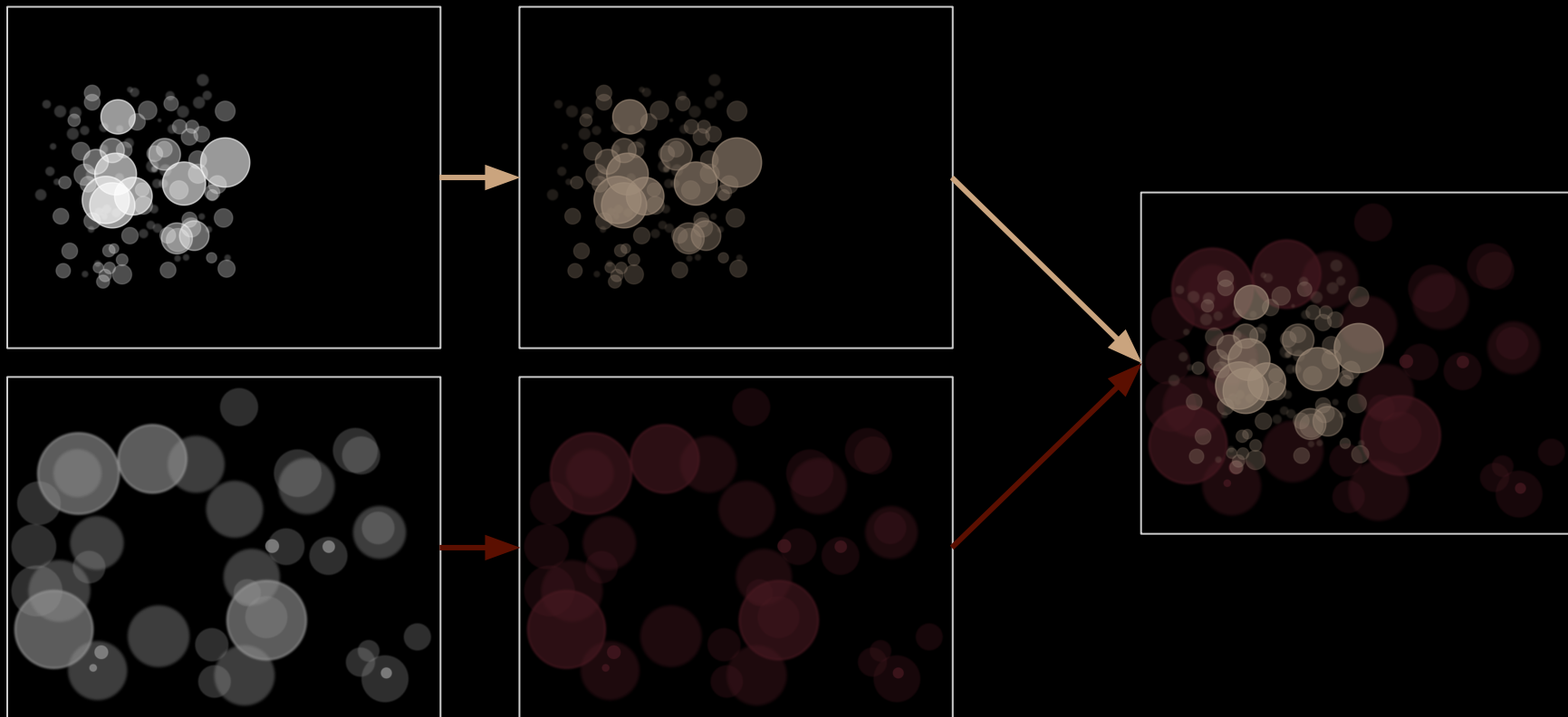
There are many color sampling algorithms out there. We want ones that do more than just average colors.

- An ideal algo will extract an arbitrary number of colors ranked by dominance.
- There are hacky ways to do it (GIF conversion, resizing) but they may not be efficient or return the best colors.

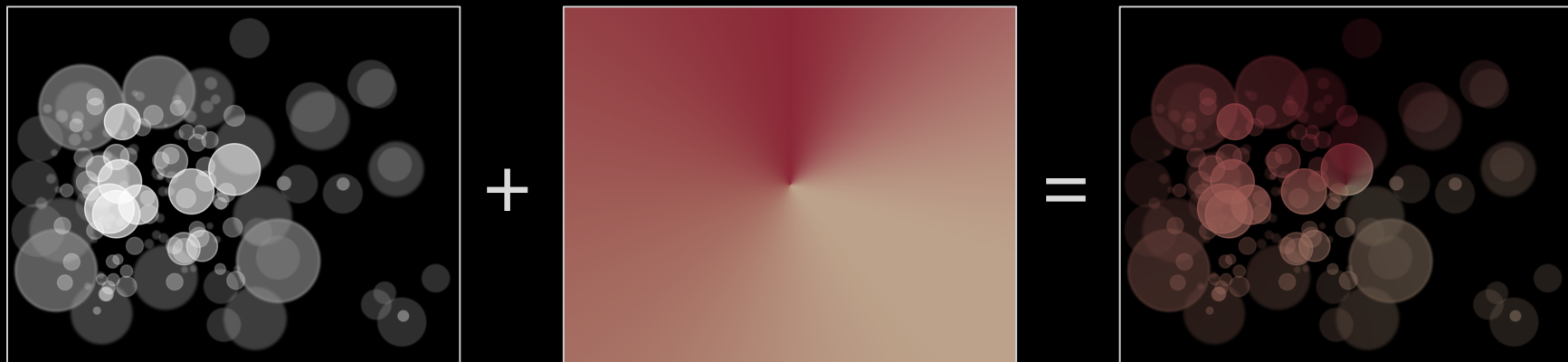
How?



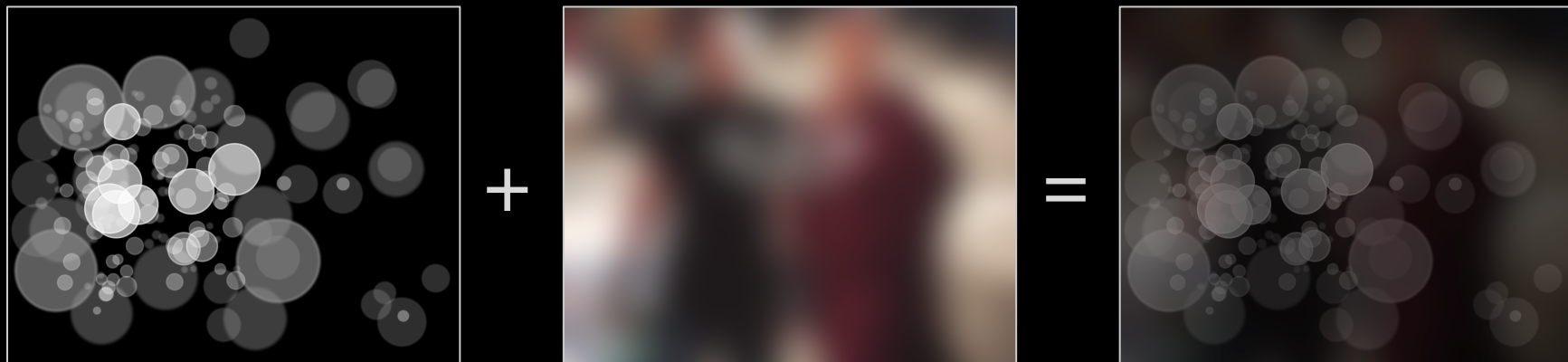
Implementation: Two-Layer



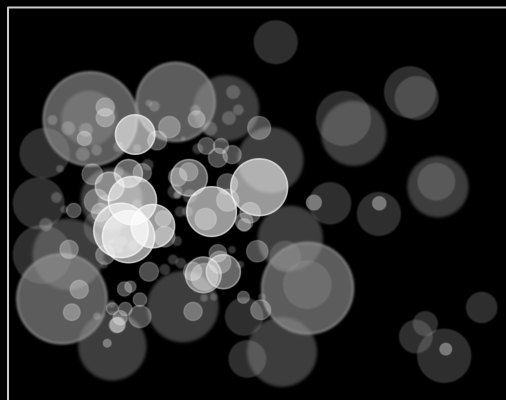
Implementation: Angular Gradient



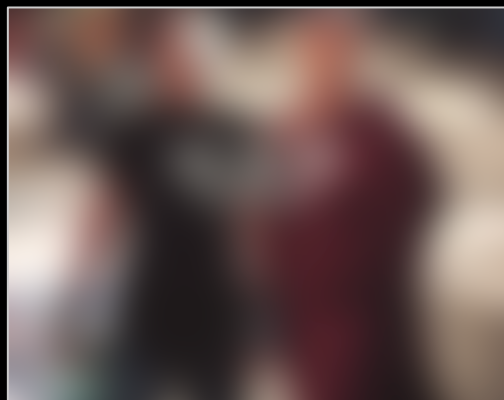
Hacky: Blurred transparency



Hacky: Blended transparency

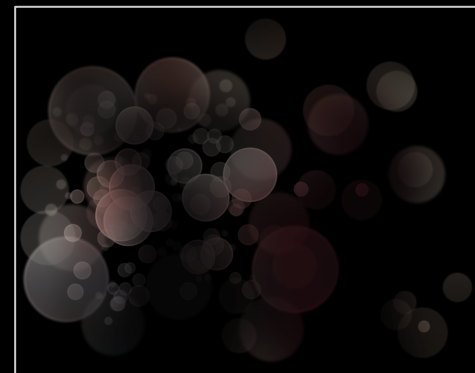


+



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Multiply



Overlay

