

###Colorful SHARP###

~Web App~

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Introduction

- ❖ What is AA (Ascii Art)?
 - ❖ AA is visual representation technique, convert image to text.

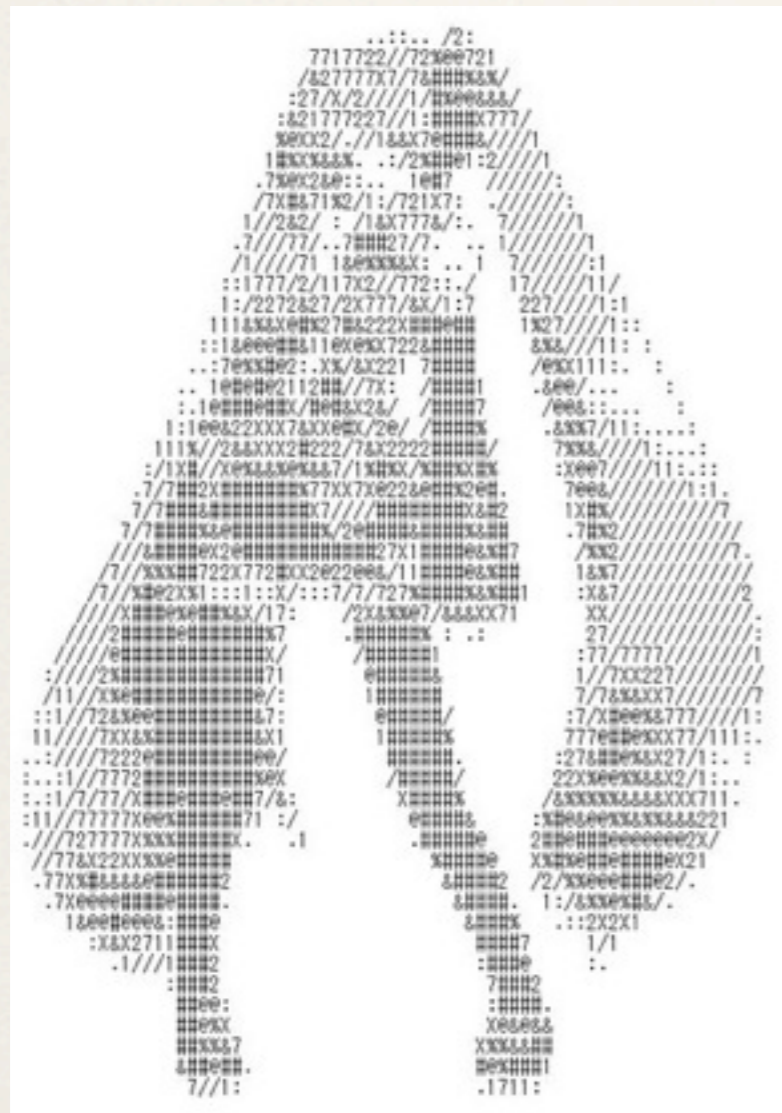


Convert
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Introduction

- ❖ Almost of AA don't have information of color.

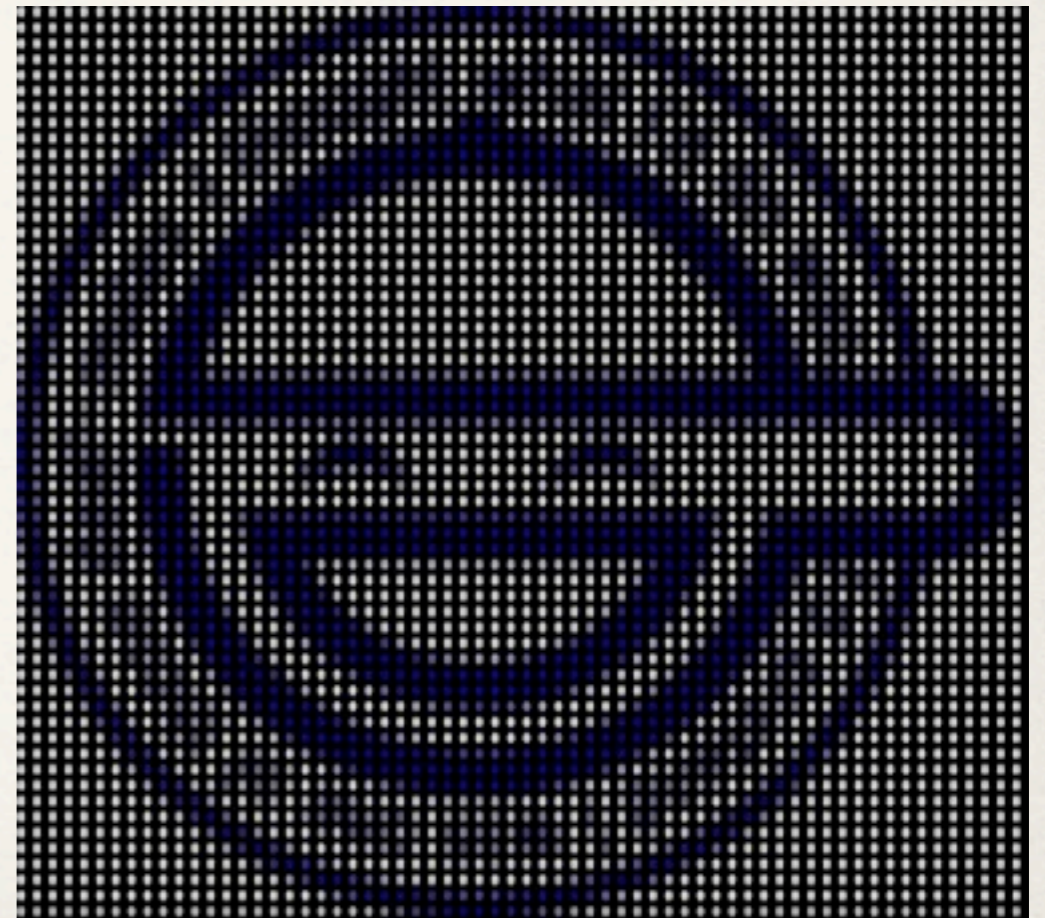


Introduction

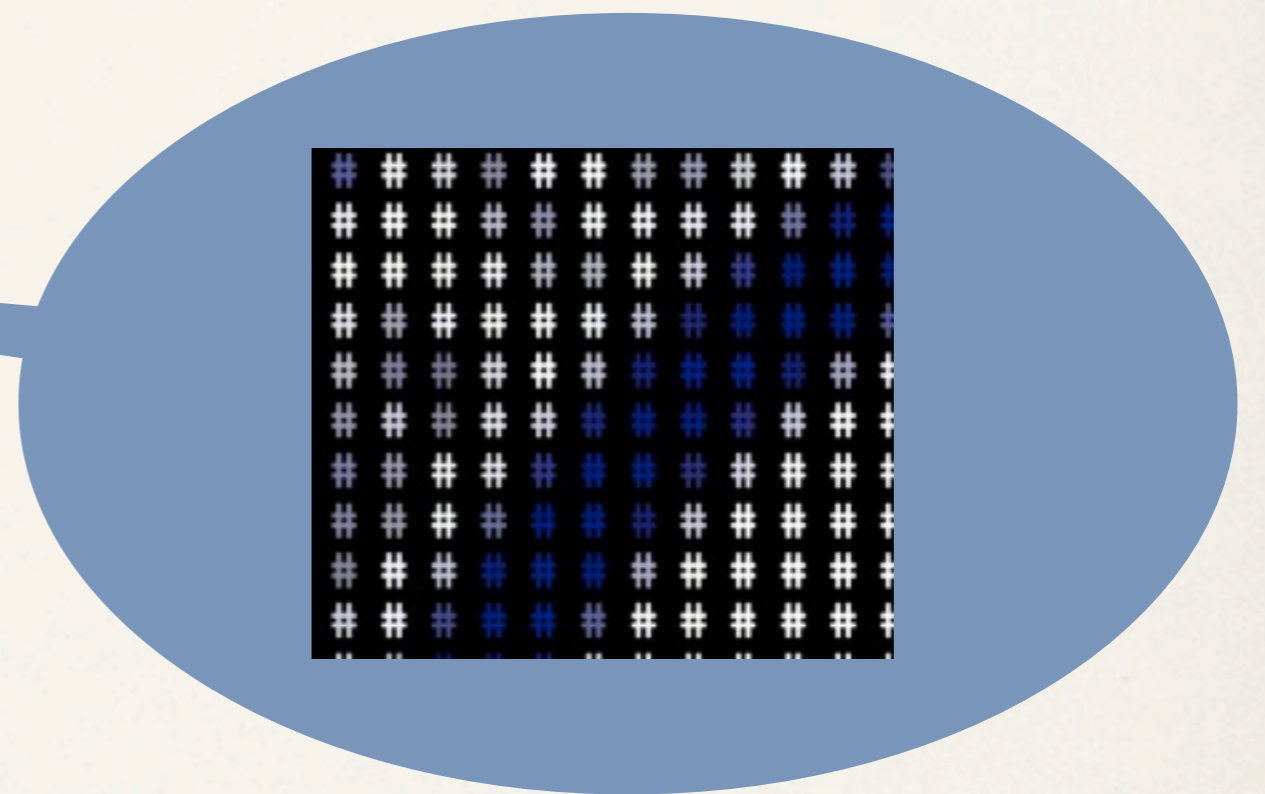
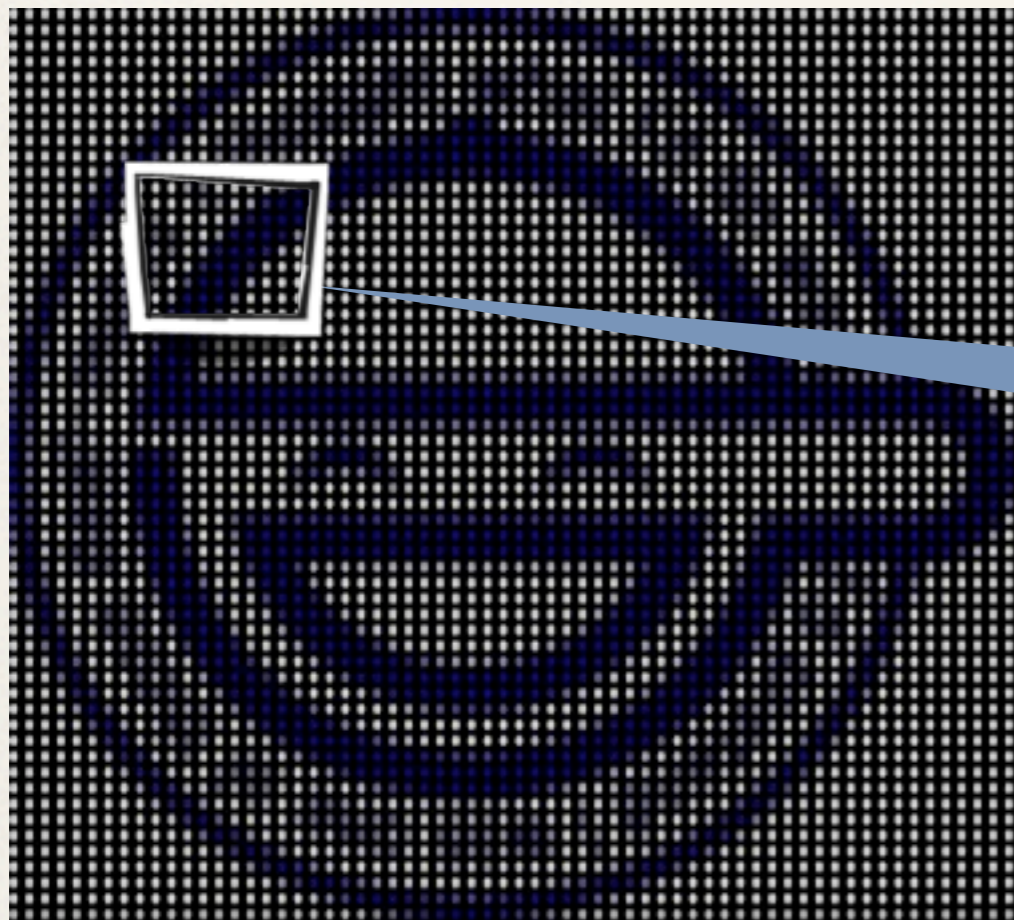
- * We made converting system which has information of color.



Convert



Introduction



Not Image, It's Text.

Introduction

- ❖ We made Web Application.
- ❖ In this presentation,
present the Application.

###Colorful SHARP###

ファイルから

ファイルを選択 選択されていません 画像アップロード

URLから

http:// GO

プロパティの指定

ブロックサイズの指定 10 :
画像の選択 選択してください : 決定

出力結果

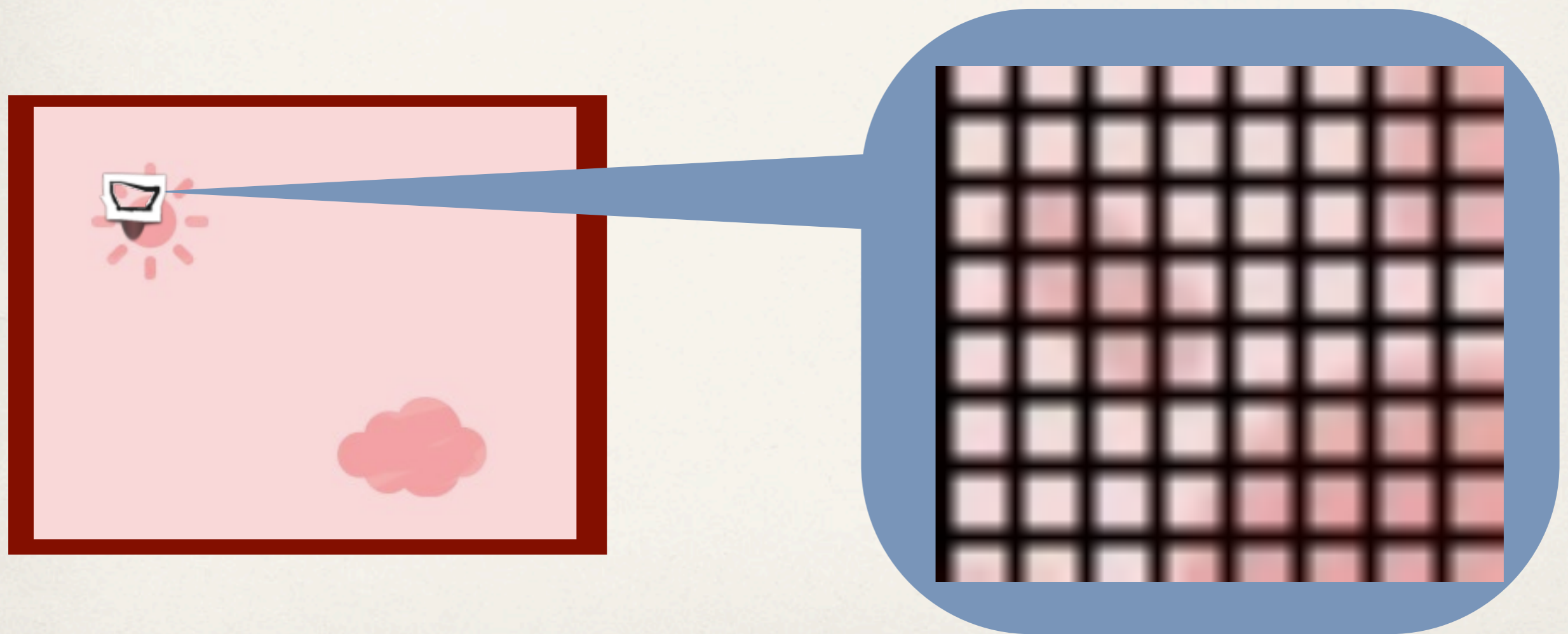


Method

- ❖ In this application, use averaging filter
 - ❖ Averaging filter calculate selected field 's average of pixel value.
- ❖ Averaging filter is...
 - ❖ one technique of smoothed filter.
 - ❖ smoothed filter operate image's shades of color.

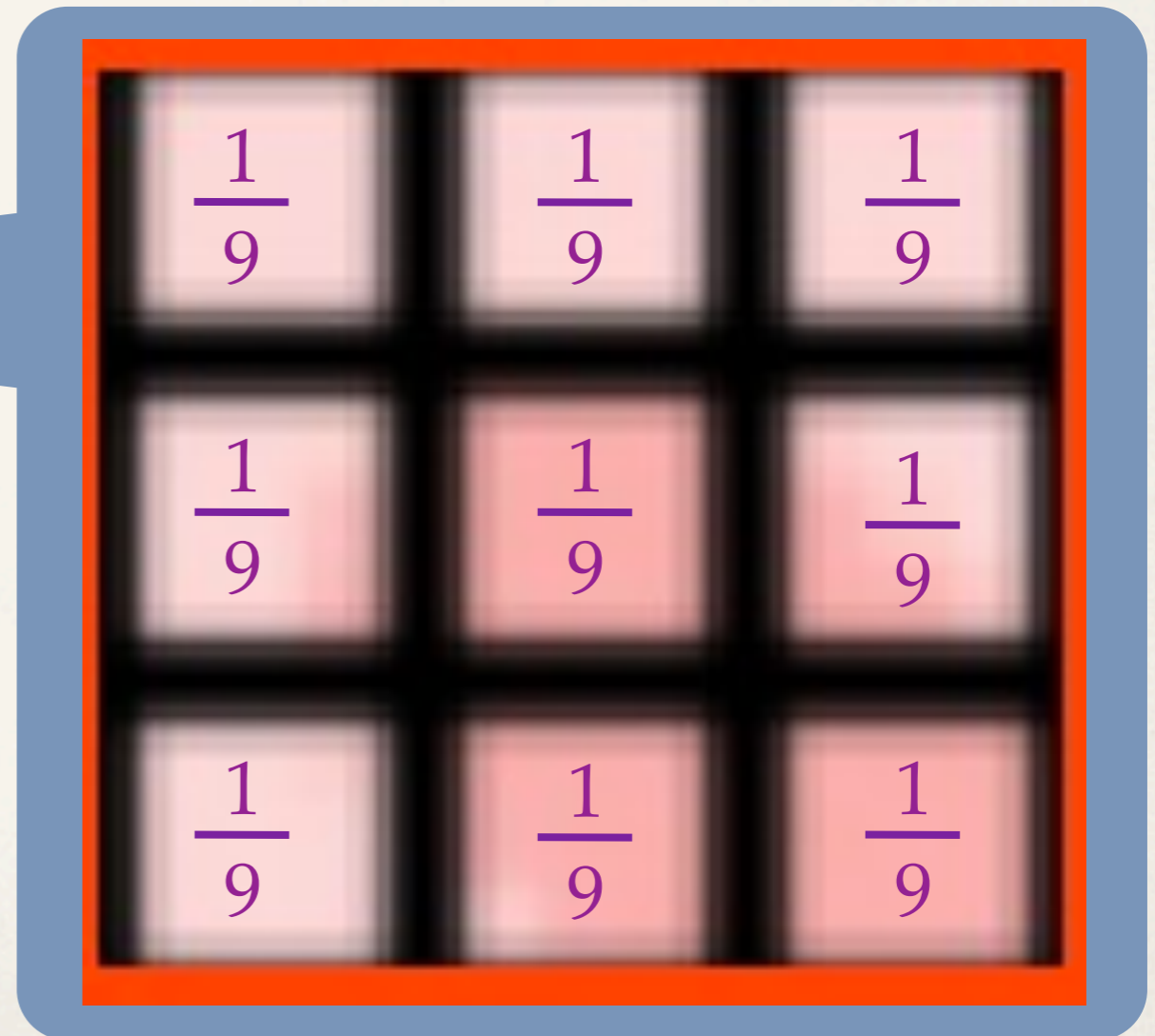
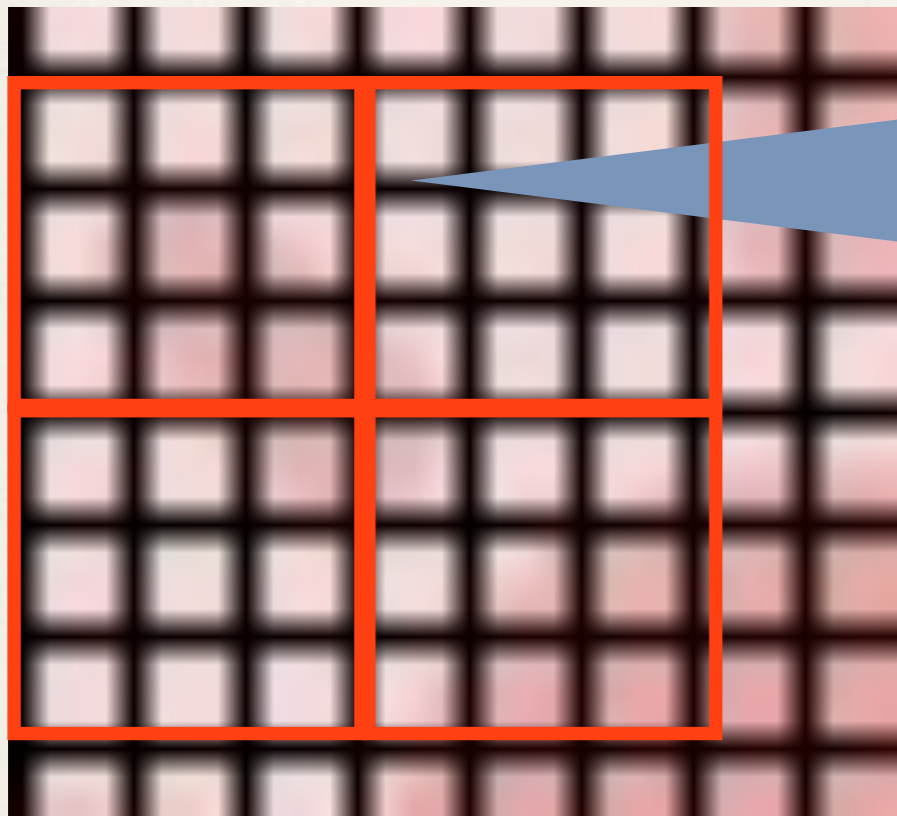
Method

- ❖ separate image to a lot of small block



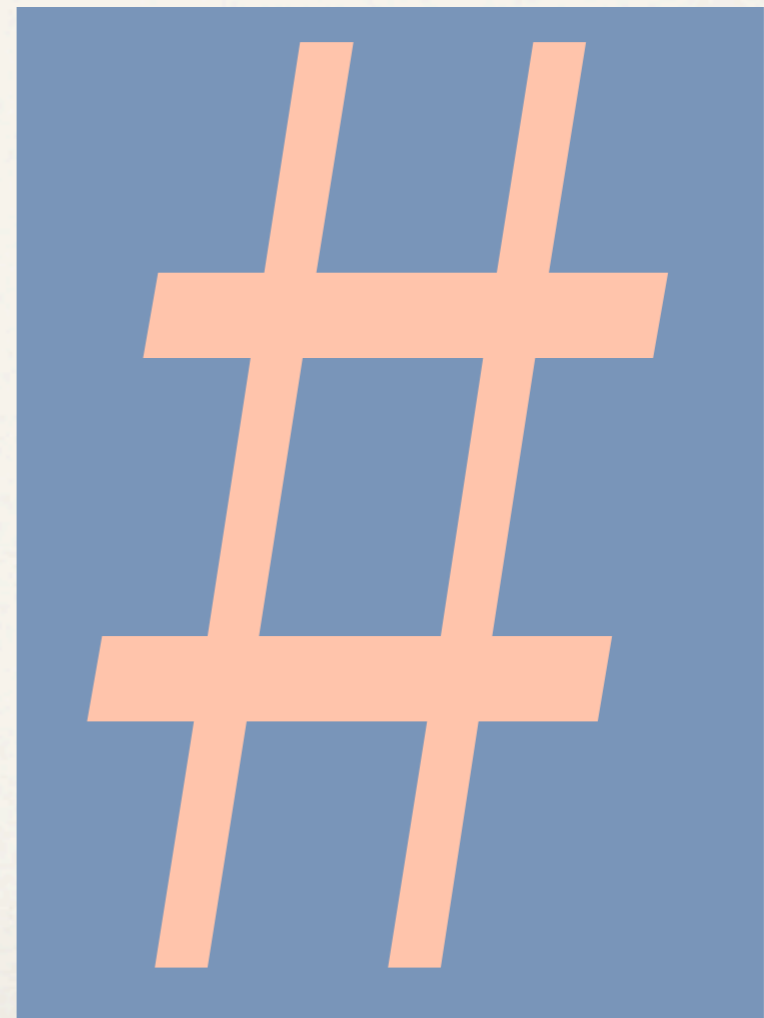
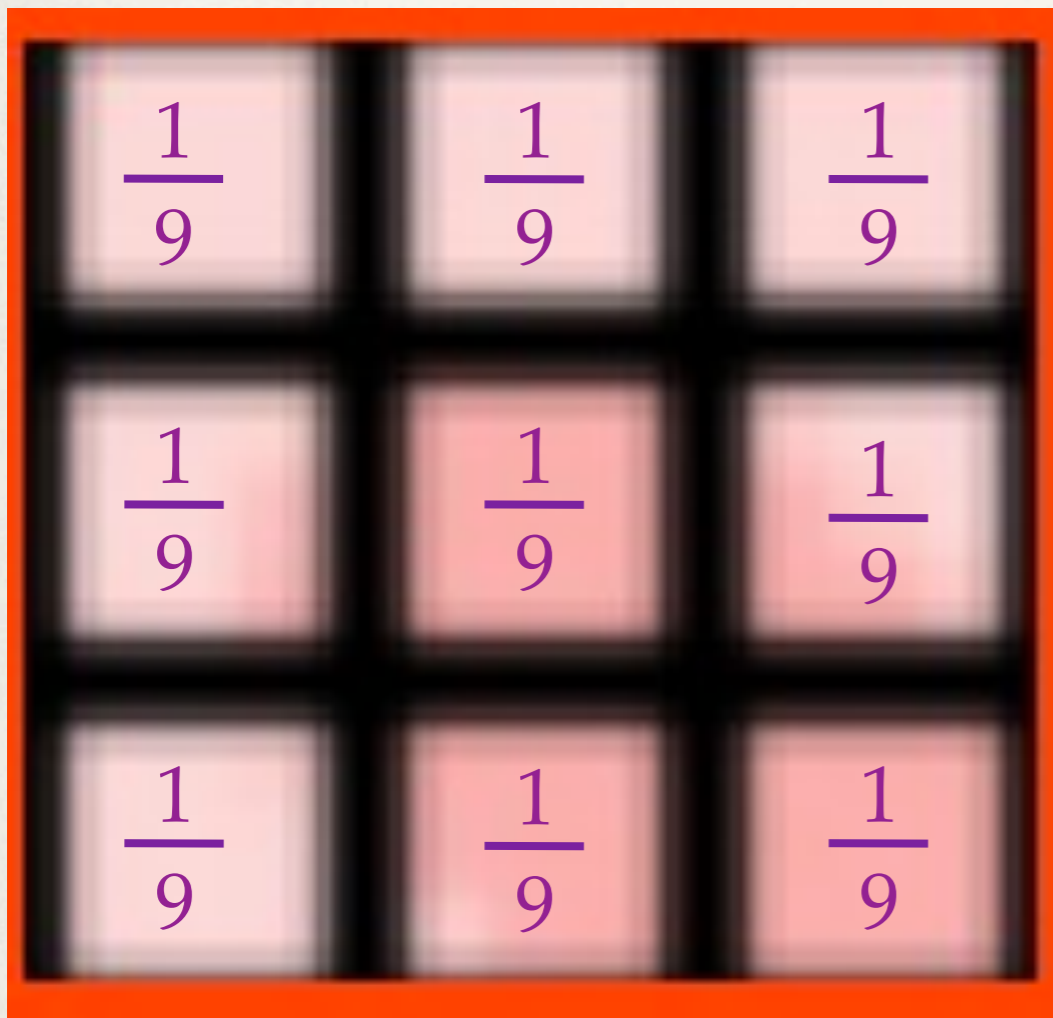
Method

- ❖ Use averaging filter to each separated block, evaluate average of color



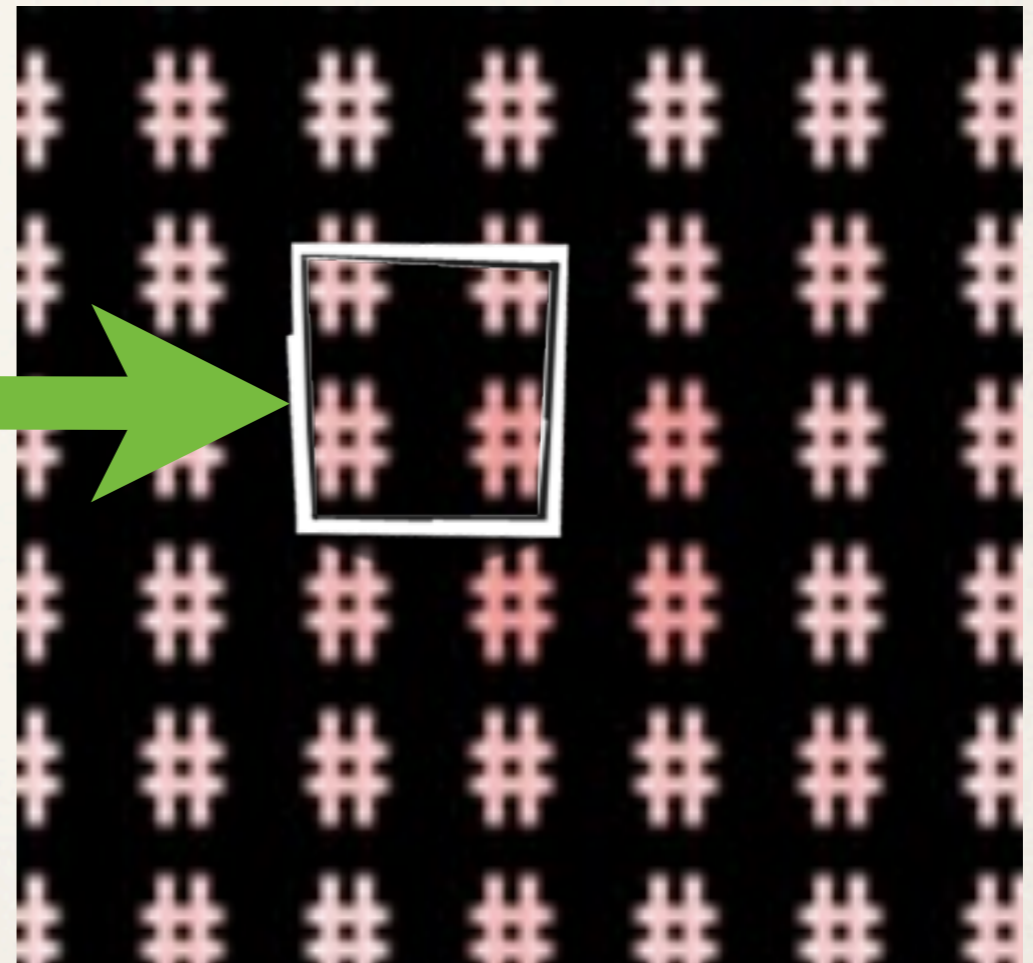
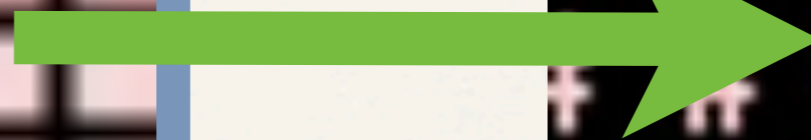
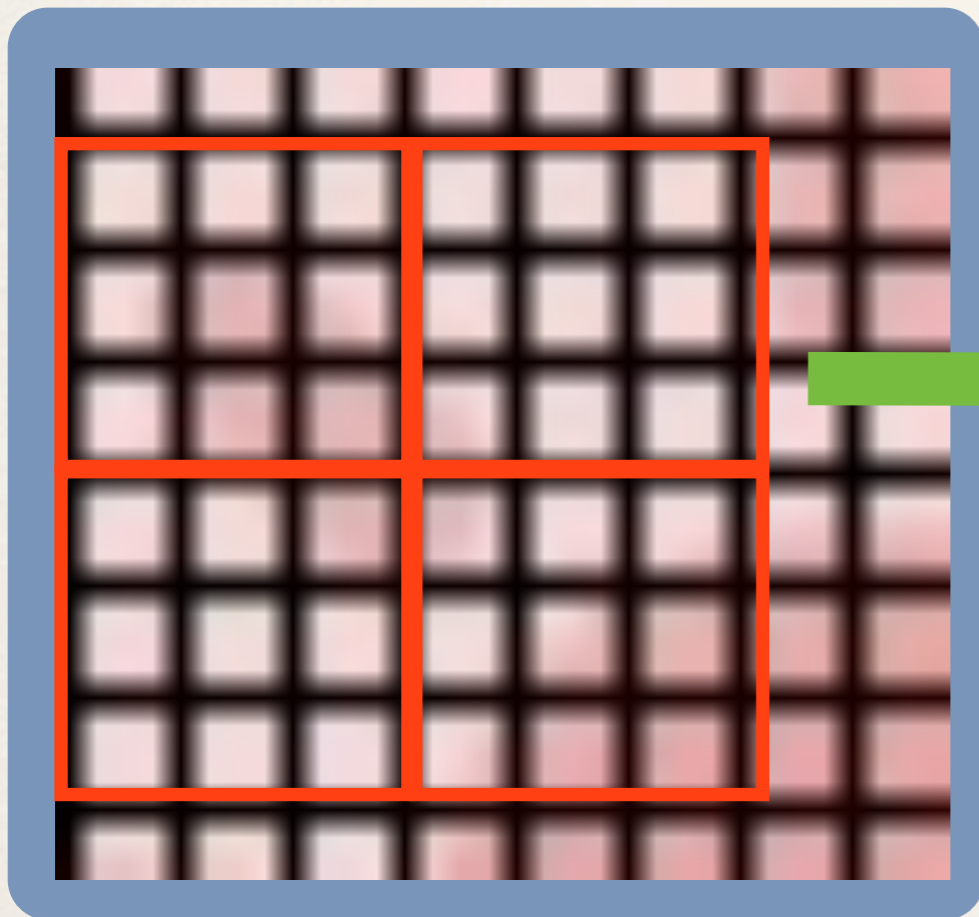
Method

- ❖ Paint Sharp to average of color



Method

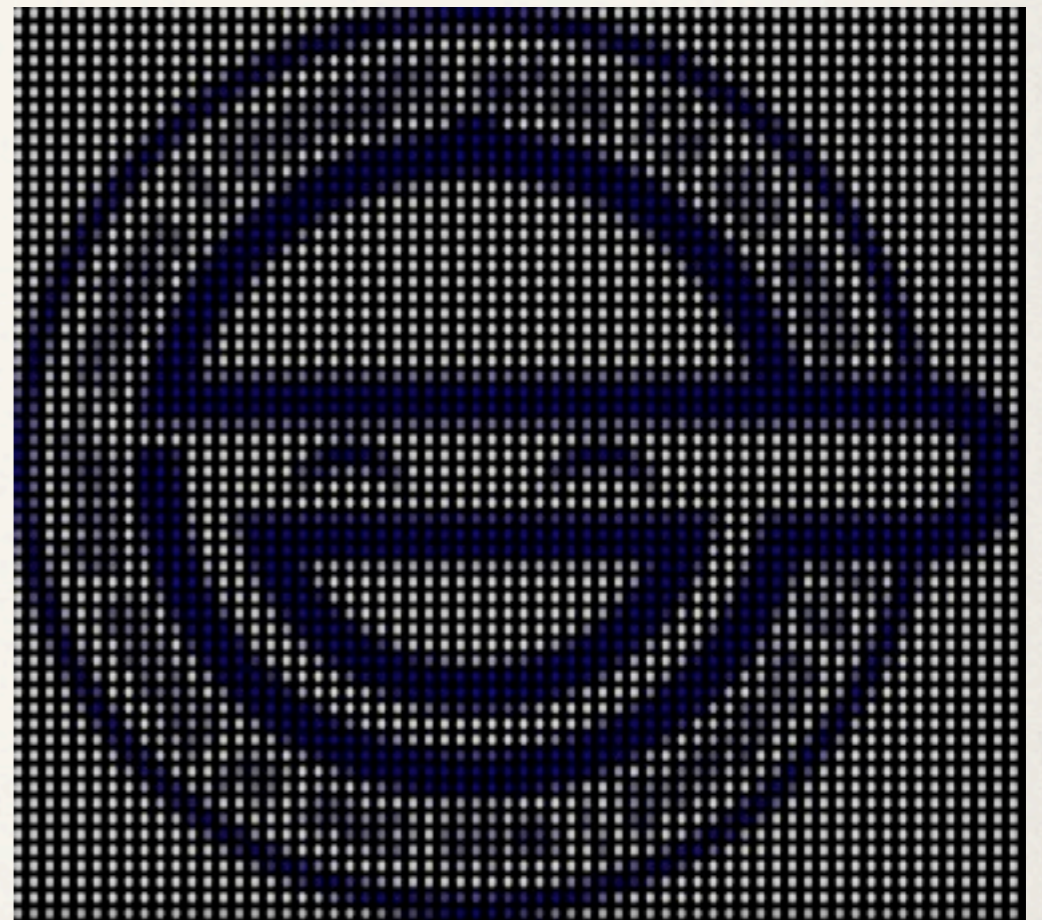
- ❖ Sort painted sharp as before convert image



Method



Result



Environment

OS	CentOS release 6.2 (Final)
kernel	2.6.32-220.23.1.el6.x86_64
Web	httpd-2.2.15-15.el6.centos.1.x86_64
Language	php, html, css

Conclusion

- ❖ We can process to convert image.
- ❖ You fun result for converted image on web browser.
- ❖ We deep understand Averaging filter of one technique of smoothing filter.

Performance

❖ goto “###Colorful SHARP###”;