ToolScape: Enhancing the Learning Experience of How-to Videos

CHI2013 Student Research Competition

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Adobe Photoshop Tutorial: Instagram Nashville Effect (Vintage/Retro)
by InvisionModz - 1 year ago - 228,534 views
Follow me on Twitter: https://Twitter.com/InvisionModz Like on Facebook!
https://

Photoshop Cs5 Tutorial: Instagram Nashville Effect (Vintage / Retro)
by Justthisgood - 1 year ago - 126,534 views
In this Adobe Photoshop Tutorial, Learn how to create the Instagram filter

Photoshop Tutorial: Vintage/ Retro effect- HOW TO
by xHawtTutorials - 1 year ago - 195,161 views
Yo! :D anyways, this is my first video. a lot of people are wanting to know how to

Photoshop Retro Effect
by pftuts - 4 years ago - 29,033 views
www.pixelforlife.com I show how to create the most common retro effects. Be sure
Problems in Finding Relevant Videos

Learners can’t tell what actually happens in a tutorial.
ToolScape Design Insight 1

- Summarize & present workflow information in search results
ToolScape Design Insight 1

• Summarize & present workflow information in search results

Convert a Photo to a Sketch :: Photoshop Tutorial

http://www.helpvid.net/http://seoninjaforum.com in this tutorial, you will learn how to convert a photo to a sketch in Photoshop CS4. To achieve this we will...
5 steps | 4:56 | by helpvid | 3 years ago

– Tools used
– Initial / Final products, Progress over time
– Complexity, Number of steps
Retro Effect

Total: 10 videos | average 11 steps
Showing all videos

Top tools

Views

Retro Style Color Grade-Photoshop Tutorial

hey, back again with another photoshop tutorial. this time on a retro style color grade where the reds in the highlights are pushed up and the blues and gree...
8 steps | 8:49 | by Z0mbieKangar00 | 2 years ago

Make your pictures look Retro! (Retro Vintage Effect) - Photoshop Tutorial (HD) - NEO HD

In this tutorial ill teach you guys how to do the retro + vintage effect in an easy way using adjustment layers and more.
10 steps | 4:56 | by NeoMiguelHD | last year
Convert a Photo to a Sketch :: Photoshop Tutorial

Uploaded on Sep 19, 2009
http://www.helpvid.net
http://aprilvingford.com

In this tutorial, you will learn how to convert a photo to a sketch in

click to leave a comment

Chuyita Ahumada 1 month ago
Thank you so much for this tutorial. It was very helpful.
Reply
Problems in Watching

It’s difficult to navigate to specific parts you’re interested in.
ToolScape Design Insight 2

- Give learners more interactivity & control in navigating a how-to video
Photoshop: Vintage Effect
User Study: Photoshop Design Tasks

Does ToolScape help users learn and apply new skills in a Photoshop design task?
With ToolScape, learners will...

**H1. feel more confident about their design skills.**
- self-efficacy gain

**H2. believe they produced better designs.**
- self-rating on designs produced

**H3. actually produce better designs.**
- external rating on designs produced
User Designs: Retro Effect
User Designs: Retro Effect

Baseline

ToolScape
User Designs: Photo to Sketch

Photo to Sketch Effect

1 - ToolScrape  2 - Baseline  3 - ToolScrape  4 - ToolScrape  5 - ToolScrape  6 - Baseline  7 - ToolScrape  8 - Baseline  9 - Baseline  10 - ToolScrape  11 - Baseline  12 - Baseline
User Designs: Photo to Sketch

Baseline

ToolScape
**H1.** Higher self-efficacy gain with ToolScape

- Four 7-Likert scale questions
- Mann-Whitney’s U test ($Z=2.06$, $p<0.05$), error bar: standard error
H2. Higher self-rating with ToolScape

- One 7-Likert scale question
- Mann-Whitney's U test (Z=2.70, p<0.01), error bar: standard error
**H3.** External raters rank ToolScape designs higher.
(Ranking: Lower is better)

- Wilcoxon Signed-rank test ($W=317$, $Z=-2.79$, $p<0.01$, $r=0.29$), error bar: standard error
- Krippendorff’s alpha = 0.753
Non-sequentially navigating video

Interactive links: clicked 8.9 times per task

“It is great for skipping straight to relevant portions of the tutorial.”

“It was also easier to go back to parts I missed.”
Ongoing Work

Capture higher level intentions and goals

Juho Kim, Robert C. Miller, and Krzysztof Z. Gajos.
Learnersourcing Subgoal Labeling to Support Learning from How-to Videos. CHI2013 Extended Abstracts
Beyond Photoshop Demonstrations
ToolScape
Enhancing the Learning Experience of How-to Videos

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