#### Multimedia & the Web Images, Audio, Video

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#### Image Formats

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Lossy & Lossless

Lossy

Discard invisible information
Offers variable quality levels
(compression)

As quality ↓, compression ↑, & file size ↓

Examples: GIF, JPEG

4

Lossless

↓ file size without losing quality Not as small as a lossy file

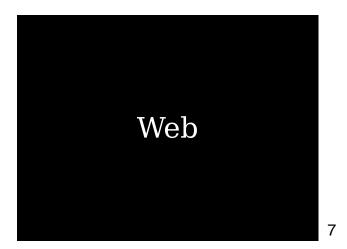
Use when:

✓ Archival
✓ Image quality valued above file size

Examples: TIFF, RAW, PNG

5

#### Raster & Vector



GIF Graphics Interchange Format

8

Displays 256 colors chosen from millions



Supports
✓ Animation
✓ Transparency

11

JPEG Joint Photographic Experts Group

Millions of colors Multiple levels of compression

13

Best for:

✓ Photos ✓ Faces

Bad for:

✓ Logos ✓ Continuous colors

14

PNG Portable Network Graphics

Millions of colors

Better compression & more transparency options than GIF

Larger than JPEG with negligible gains in quality

16

Good for:

✓ Logos

✓ Illustrations

✓ Text

✓ Solid areas of color

Bad for:

✓ Simple photos

Image with photography & line art?

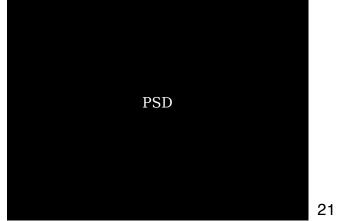
✓ Large but sharp PNG
✓ Small but blurry JPEG

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Supports ✓ Transparency







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### Image Sources

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Free

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Attribution

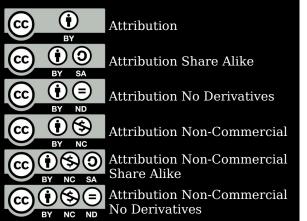
Must credit author

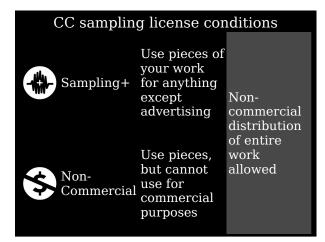
Derivative works under the same license Share Alike

Non-Commercial Cannot use for commercial purposes

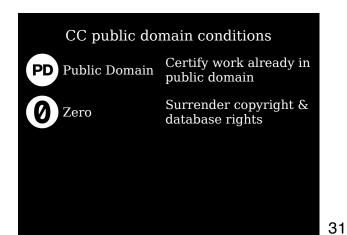
No Derivative Verbatim copies only Works

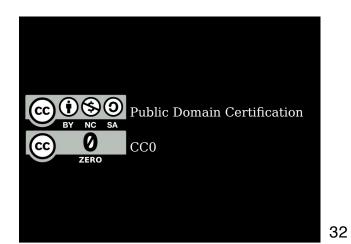
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UO BLUE	http://www.varelibrazii.multiply.com	1,200		
GACE Web CMS	http://www.bigace.de	200		
lackline Studio	http://www.myspace.com/lineanera	300		
IRCULANDO	http://varelibrazii.multiply.com	450		
andyJar	http://www.channel4.com/learning/microsites/lifdeasfactory/pixnmix /candy_jar.html	274		
amegie Mellon Open Learning Initiative	http://www.cmu.edu/ol/	10		
sse Studies/OpenLearn	http://www.open.ac.uk/open/earn	500		
ina Open Resources for Education (CORE)	http://www.core.org.cn/on/pko/index_en.html	500		
proentro	http://varefbrazil.mu/tply.com	800		
ombat Records	http://www.myspace.com/crombatrecords	1,485		
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bru galerisi	http://www.ebrugalerisi.com	5.000		
ELatinoso	http://wwwlbrazii.multiply.com	232		
roundReport	http://groundreport.com/	400		
NER BALANCE	http://www.varelibrazii.multiply.com	1,200		
10	http://www.turkalite.com	1.000		
terCommunication Center	http://hive.ntlicq.or.jp/	50		
shns Hopkins Bloomberg School of Public leath OCW	http://oow/hsph.edu/	58		
erner	http://www.kemer.com.tr	5,000		
orea University OCW	http://oow.korea.edu/	17		
oveBridge	http://lovebridge.org	100		
IT Open CourseWare	http://oow.mit.edu/	1,800		
pen Universiteit Nederland	http://www.opener.ou.nl/	19		
vermundo Banco	http://www.overmundo.com.br/banco/banco.php	190		
doest Spot	http://www.podcastspot.com/	1,349		
egisteredCommons	http://RegisteredCommons.org	1,000		
over	http://revver.com/	19,100		
ENTIMENTOS MATIZADOS	http://varelibrazii.multiply.com	1,178		
sVee	http://www.scivee.tv/	250		
evenioad.com	http://www.sevenload.com	10,000,000		
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LoveBridge	http://fovebridge.org	100		
Love Textures	http://www.lovetextures.com/	100		
MIT Open CourseWare	http://oow.mit.edu/	1,800		
Metaphotography	http://www.metaphotography.eu	100		
Myconcertarchive	http://www.myconcertarchive.com	6,000		
O2CW	http://wmhn.org	100		
OER Commons	http://www.oercommons.org/	7,567		
Open Clip Art Library	http://openclipart.org/	14,300		
Open Font Library	http://openfontlibrary.org	50		
Open Universiteit Nederland	http://www.opener.ou.nl/	19		
Open of Course	http://www.open-of-course.org/	30		
OpenGameArt	http://opengameart.org/	1,000		
Oriented Open Courseware	http://wwhn.org	100		
Overmundo Banco	http://www.overmundo.com.bn/benco /banco.php	190		
Ozzed	http://ozzed.net	100		
Photoeverywhere	http://photoeverywhere.co.uk	3,000		
Pigs	http://www.pigs.de/	17,000		
RegisteredCommons	http://RegisteredCommons.org	1,000		
Ryaku Stock Photography	http://stock.ryoku.de/	10		
Sevenicad.com	http://www.sevenload.com	10,000,000		
Shi Yall's Free Asia Images	http://www.asiastockimages.com	309		
Silencio	http://www.silencio.be	165,000		
Sketchory	http://sketchory.com	250,000		
Stefan Jaeger	http://fotografie.stefan-jaeger.com/	30		
TARÔ VOCAL	http://tanovocal.blogspot.com/2008/07 /tan-vocal.html	1,000		
THE DANCE GOLDEN OF A SNAIL	http://varelibrazil.multiply.com	2,100		
The Ninth	http://www.the-ninth.com	80		
Tree of Life Web	http://tolweb.org/	1,000		
Tufts University OCW	http://ocw.tufts.edu/	38		
Turkem	http://www.turizm.com.tr	1,000		
Uforobots.net	http://www.uforobots.net	12		
United Nations University On-Line Learning	http://www.onlineleaming.unu.edu/	10		
Universidad de Mantenno OCM	Mark Teach and an end agend	-0		

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CO	ntent Direc	HOMES
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Sev to Nature	http://www.keytonsture.eu/wiki/Main Page	1,002
Chaba	http://khaba.es	20
ids World	http://www.thekidsworld.net	800
orea University OCW	http://oowkorea.edu/	17
ive with Yoga	http://www.livewithyoga.net	1.000
oveBridge	http://fovebridge.org	100
IT Open CourseWare	http://opw.mit.edu/	1.800
famybooks net	http://manybooks.net/	130
leditation info	http://www.meditationinfo.net	750
ly Free PR	http://www.myfreepr.com	25,000
vconcertarchive	http://www.myconcertarchive.com	6.000
stureoure India	http://www.naturecureindia.net	400
CW	http://wwhn.org	100
IR Commons	http://www.percommons.org/	7,567
en Font Library	http://openfont/brary.org	50
en Universiteit Nederland	http://www.opener.ou.nl/	19
sen of Course	http://www.apen-of-course.org/	30
penplaces	http://www.openplaces.org	500.000
bit of Information	http://www.imorbit.com	500
regon Legal Glossary	https://www.oregonlaws.org/glossary	2.500
riented Open Courseware	http://www.org	100
wermundo Banco	http://www.overmundo.com.br/banco/banco.php	190
agisteredCommons	http://RegisteredCommons.org	1,000
lo/Vee	http://www.scivee.tv/	250
hanewiki	http://sharewiki.org/	160
lencio	http://www.sliencio.be	165,000
HE DANCE GOLDEN OF A SNAIL	http://warelibrazil.multiply.com	2,100
The Joy of Life Drawing (instructional and)	http://www.graphicall.org/ttp/ideasman42 /the joy of life drawing.pdf	67
ravature	http://www.travature.com/guides/	1,000
ravellerspoint Travel Guide	http://www.travellerspoint.com/guide/	2,500
ree of Life Web	http://tolweb.org/	1,000
ufts University OCW	http://oowitufts.edu/	38
ufam	http://www.turizm.com.tr	1,000
forobots net	http://www.uforobots.net	12
Inearthtravel	http://www.unearthtravel.com/	1,000,000





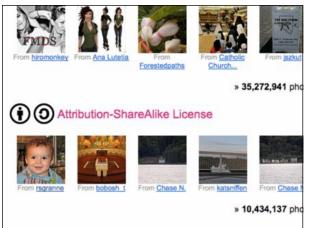














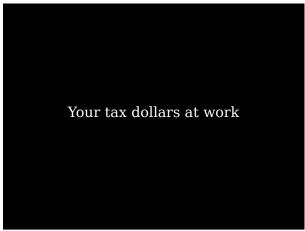














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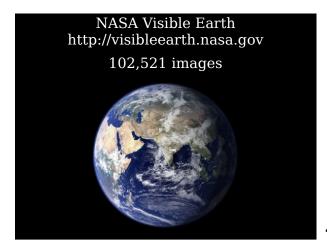






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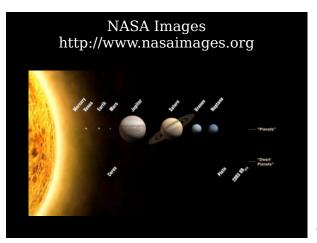
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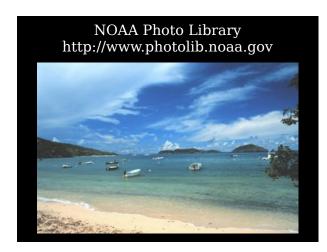
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NOAA = National Oceanic & Atmospheric Administration

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NOAA = National Oceanic & Atmospheric Administration

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NOAA = National Oceanic & Atmospheric Administration



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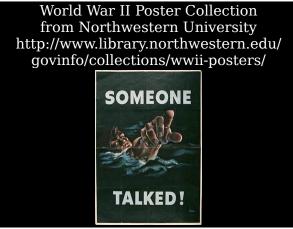
NOAA = National Oceanic & Atmospheric Administration



### NOAA = National Oceanic & Atmospheric Administration

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World War II Poster Collection from Northwestern University http://www.library.northwestern.edu/ govinfo/collections/wwii-posters/



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World War II Poster Collection from Northwestern University http://www.library.northwestern.edu/ govinfo/collections/wwii-posters/



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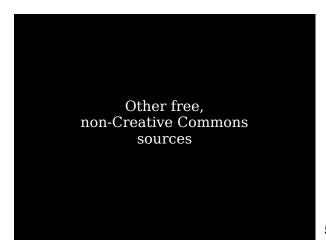








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\$1	X small	300x400
Ъī	A Silidii	3008400
\$3	Small	600x800
\$6	Medium	1200x1600
\$12	Large	1920x2560
\$18	X large	2800x4200
<b>\$</b> 21	XX large	3300x4900
\$27	XXX large	3700x5600

### fotolia http://us.fotolia.com 6,764,794 photos & illustrations

66



67

\$1	XS	300x400
\$2	S	640x480
<b>\$</b> 3	M	6.9" x 9.8"
\$4	L	9.8" x 13.9"
<b>\$</b> 5	XL	13.9" x 19.7"
\$6	XXL	19.7" x 27.8" +
<b>\$</b> 7	XXXL	19.7" x 27.8" +

# Audio Sources

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Bela Fleck Robert Randolph & the Flecktones & the Family Band Blues Traveler Rusted Root Cowboy Junkies Smashing Disco Biscuits Pumpkins Grateful Dead String Cheese Incident Jack Johnson moe. Umphreys McGee Radiators

# Commercial

74

iStockphoto http://www.istockphoto.com/ audio.php 29,000 audio files

75



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\$2	Basic	Isolated sounds & instruments, or sound effects
\$5	Detailed	Short phrases with multiple elements
\$15	Complex	Short or simple complete compositions
\$25	Elaborate	Long & detailed complete compositions

## Video Sources

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Free







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iStockphoto http://www.istockphoto.com/ video.php



\$15	Small	320x180		
\$25	Medium	640x360		
<b>\$40</b>	NTSC	720x480		
\$40	PAL	720x576		
\$75	720 HD	1280x720		
\$90	1080 HD	1920x1080		
	WMV MP4			
	QuickTime			





\$10	Small Web	320x240	
\$20	Big Web	640x480	
\$30	NTSC	720x480	
\$30	PAL	720x576	
\$40	HD 720	1280x720	
\$50	HD 1080	1920x1080	
	WMV	AVI	
	MP4	FLV	
Qı	uickTime		



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#### Thank you!

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