

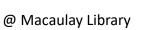




Soaring Past COVID Raptors of Washington



Thomas Bancroft & Danielle Graham Fall 2020



Please Join the Google Classroom for this Class – We will post lots of good information!

- To access this course:
- Navigate to <u>classroom.google.com</u>
- Log in to your Google account. (You'll need a free Google account if you don't have one already.)
- Select the + symbol on the top right and select "Join class"
- Enter the class code: **2i7aqap**
- Click "Classwork" at the top of your screen

Overview of Course

- Lectures
 - Key Characteristics
 - Buteos
 - Harriers & Accipiters & Review
 - Falcons & Review
 - Eagles, Vultures, Kites, & Review
- Homework
 - Review







• 20 species in Washington



- Goals
 - Learn to identify raptors
 - Know what characteristics to check
 - Have some understanding of behavior, ecology, & distribution
 - Have Fun! Lots of it!
- Thomas Bancroft gtbancroft@gmail.com
 - Cell phone 202 297 8501



Rules for Identifying

- One bird at a time
- Identify a bird to a broad category
 - Then narrow to a smaller group, then to species
- Look for 3 or more clues to identify the bird
- Remember everyone makes mistakes, that is okay, learn from them.







How to Identify Raptors

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution
- Calls





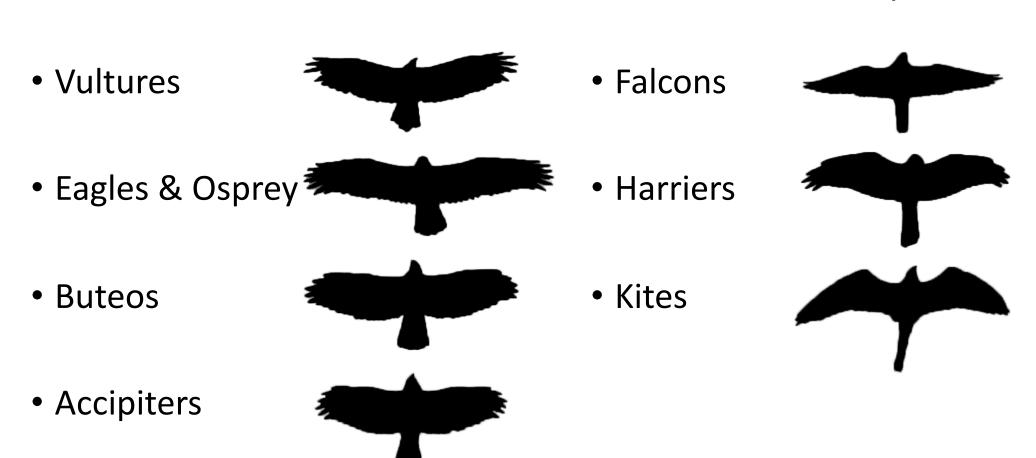


Scientific Name

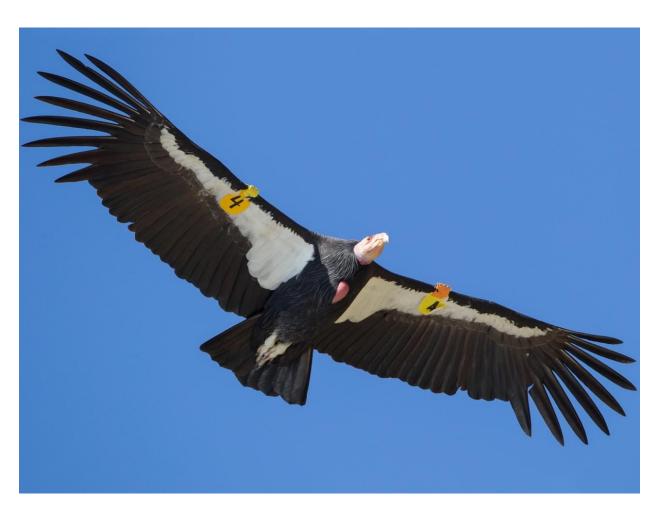
- Genius & species makes the scientific names.
 - Buteo jamaicensis Red-tailed Hawk
 - Accipiter striatus Sharp-shinned Hawk
 - Falco columbarius Merlin
 - Circus hudsonius Northern Harrier

Group of birds that are related are in the same genius, the next higher level is the family level, and they are related at the next higher level. Many characteristics are similar for members of the same genius.

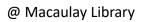
Break Them Down into Smaller Groups



Vultures



California Condor







Eagles & Osprey







Buteos





Swainson's Hawk







Rough-legged Hawk

Sharp-shinned Hawk

Accipiters



Cooper's Hawk





Falcons











@ Macaulay Library

Harriers

Male



Northern Harrier





Kites



White-tailed Kite







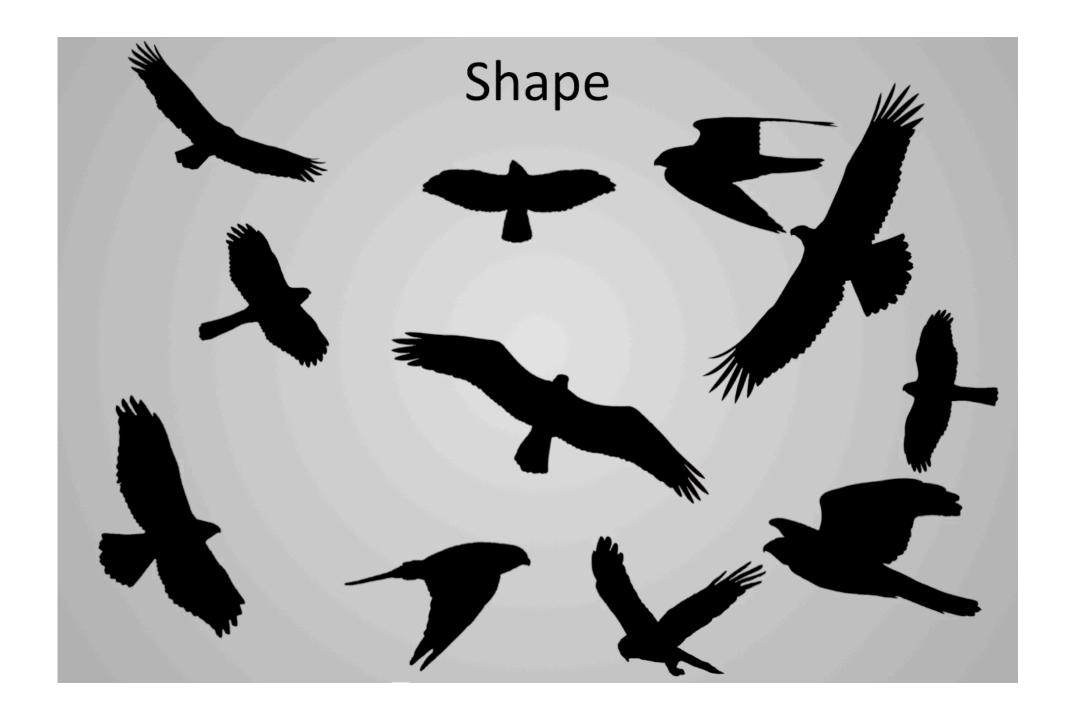
How to Identify Raptors

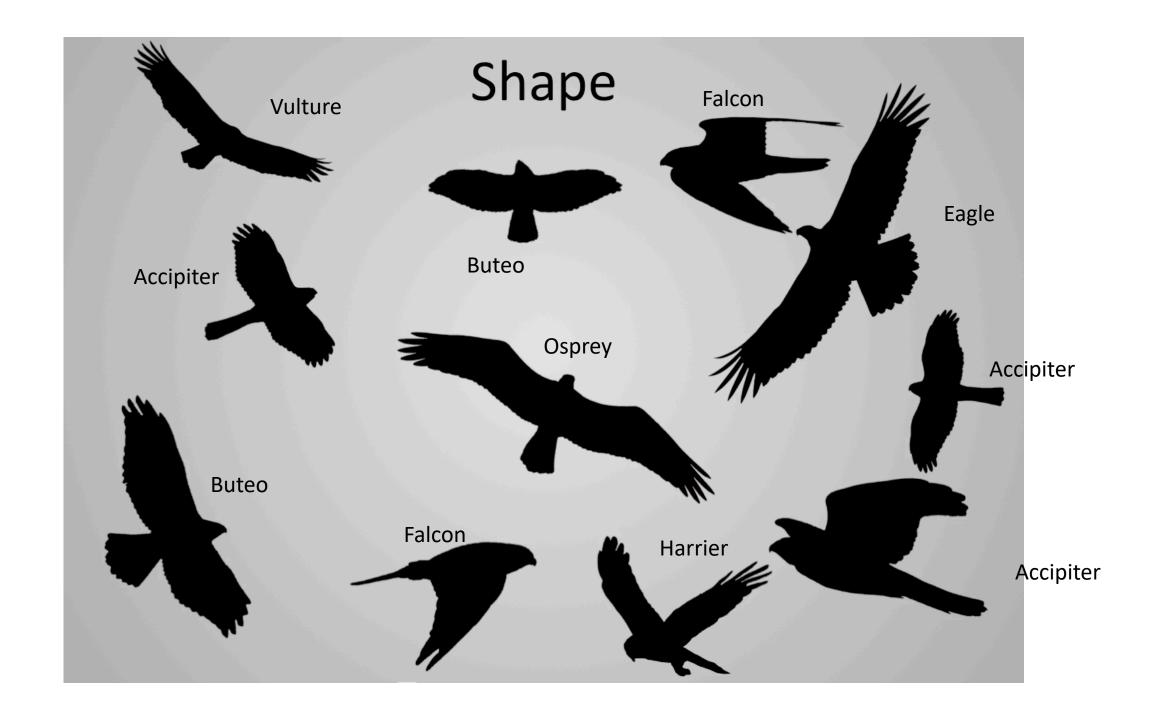
- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution



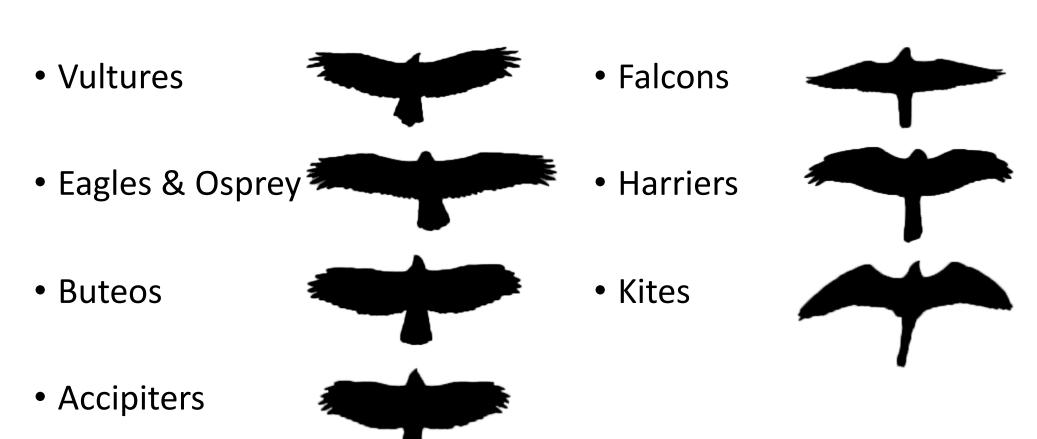








Raptor Diversity



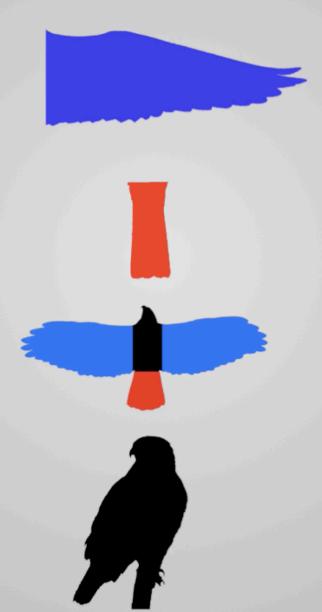


Wing shape



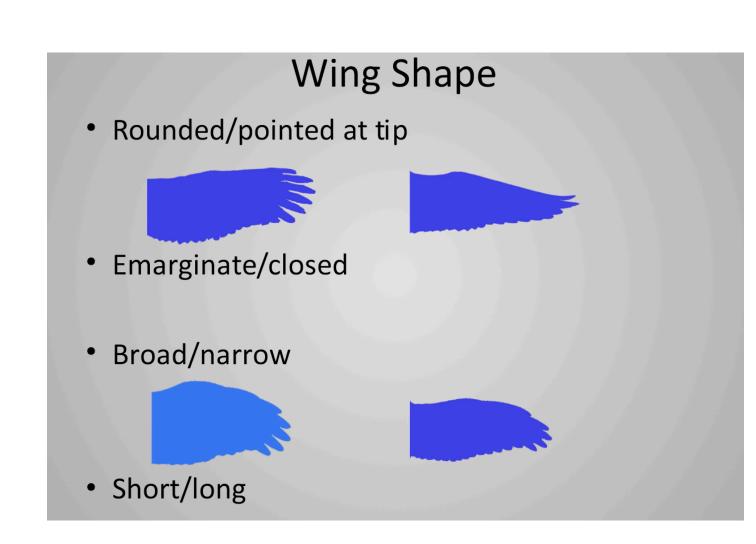
Proportions

Posture

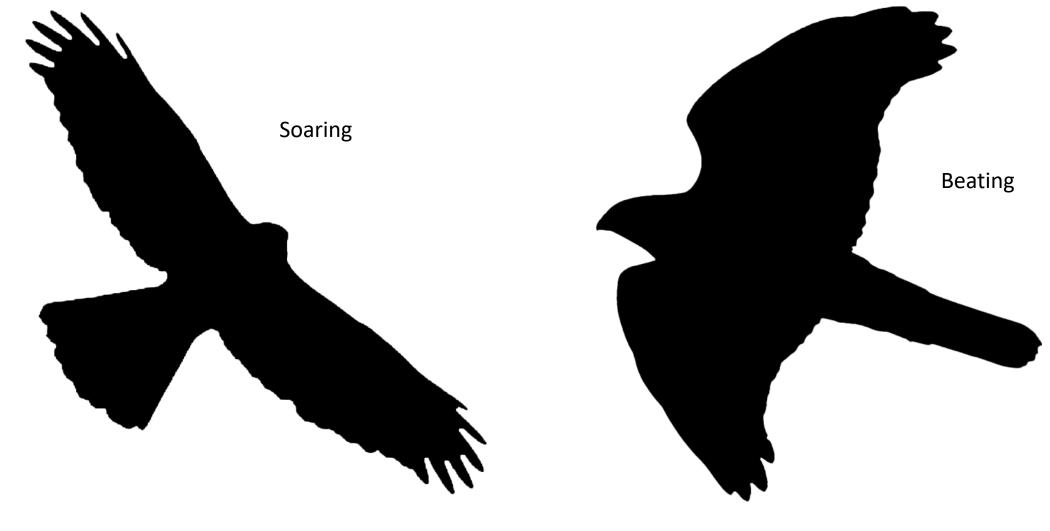


Wing Shape

- Rounded or pointed at tip
- Emarginated
- Broad or Narrow
- Short or long



Wing Shape – look at how it varies



Cooper's Hawk

(Accipiter)

Tail Shape

Long/short



Notched/square/rounded/pointed tip









Tail shape – it can vary

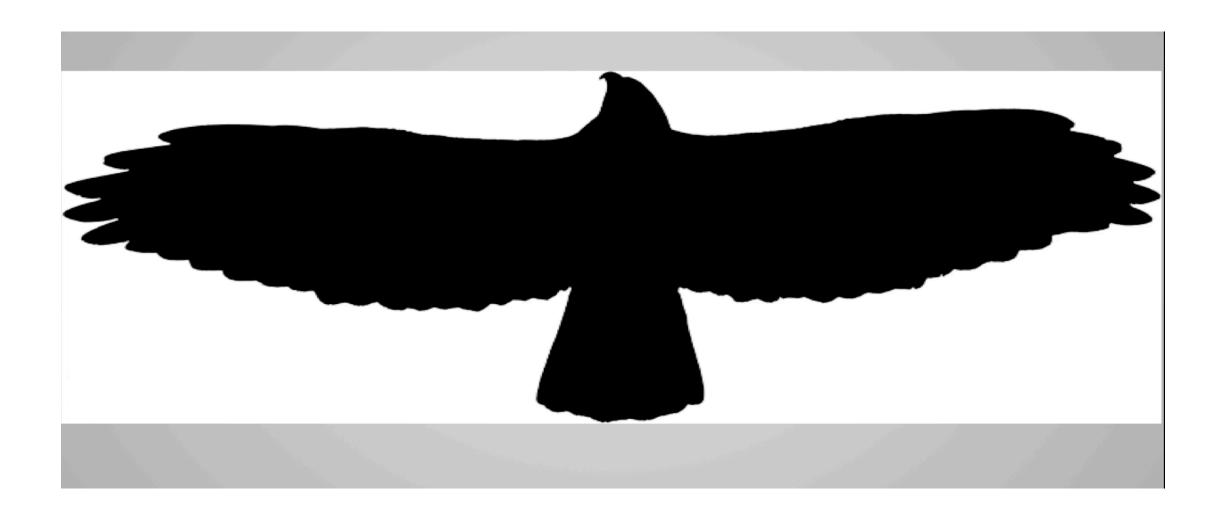




Cooper's Hawk

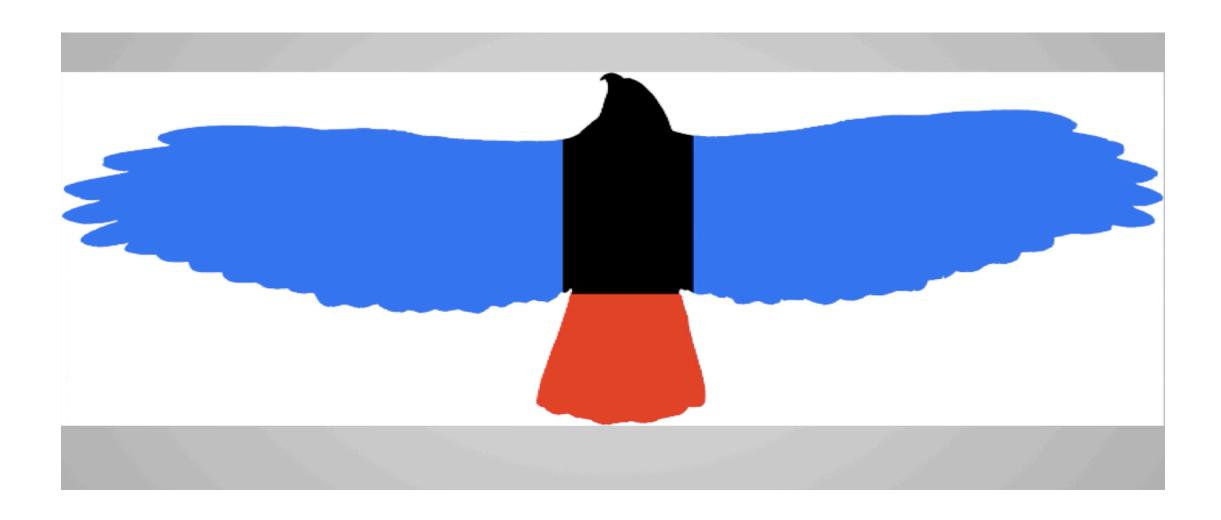
(Accipiter)

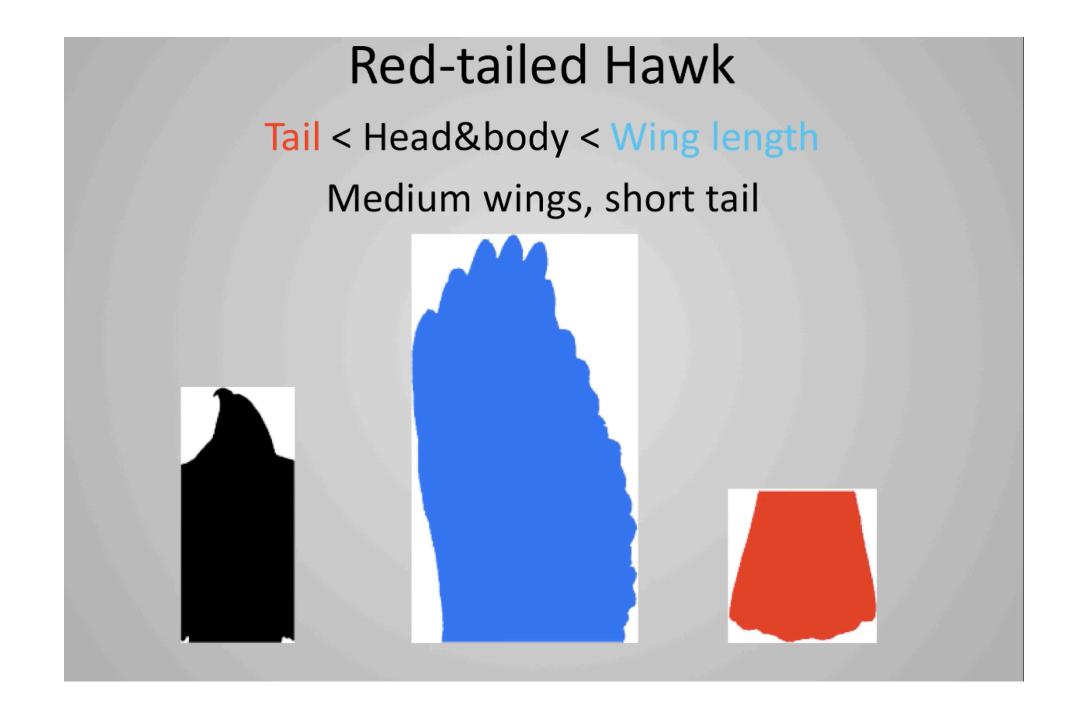
Red-tailed Hawk Proportions (Buteo)



Red-tailed Hawk

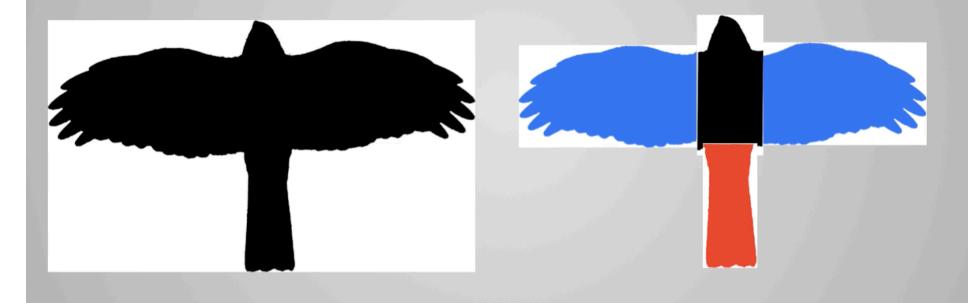
(Buteo)





Sharp-shinned Hawk

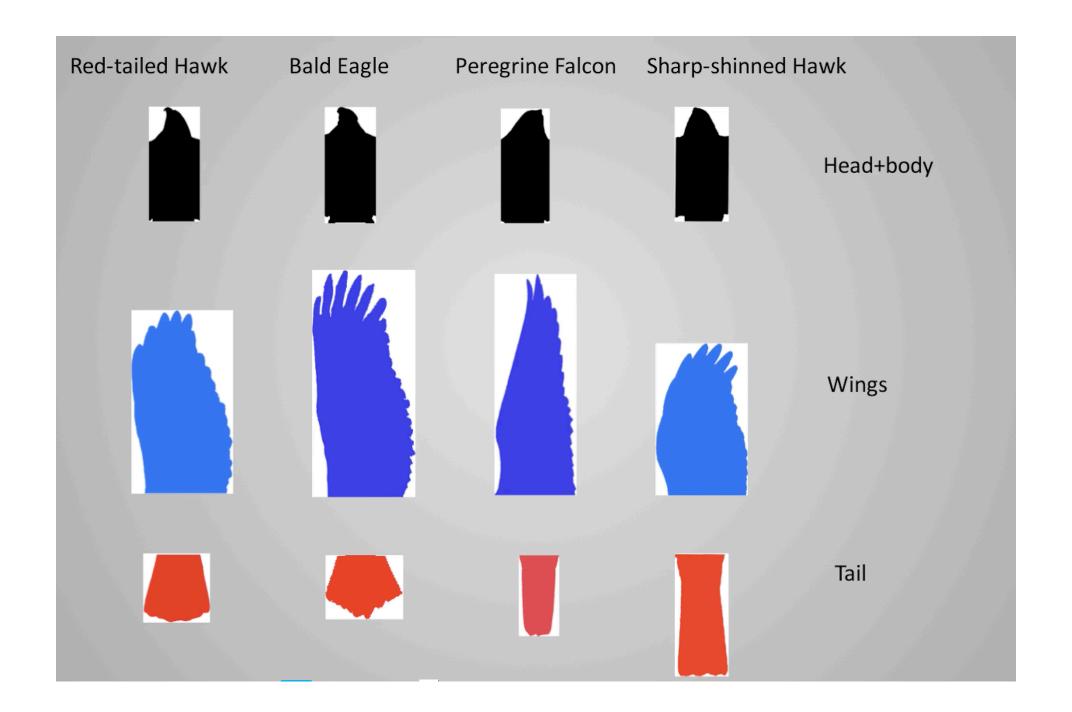
(Accipiter)



Sharp-shinned Hawk

Head&body ≤ Wing length = Tail
Short wings, long tail





Proportions of North American Raptors

Raptor Category	Wing Length	Wind Width	Wing Shape	Tail Length
Vultures	Long	Broad	Rounded	Short
Eagles	Long	Broad	Rounded	Short
Buteos	Moderately Long	Broad	Rounded	Long
Accipters	Short	Broad	Rounded	Long
Falcons	Long	Narrow	Pointed	Long
Harriers	Long	Narrow	Rounded	Long

Questions?

gtbancroft@gmail.com www.thomasbancroft.org



I'm not a guru. I'm trying to learn shapes in raptors.

Body – Wing – Tail Comparison

Tail Length? Wing Length? Wing Width?

(Kind of Eagle)

Not a North American Species This is for you to practice proportions



Body – Wing – Tail Comparison

Tail Length? Wing Length? Wing Width?

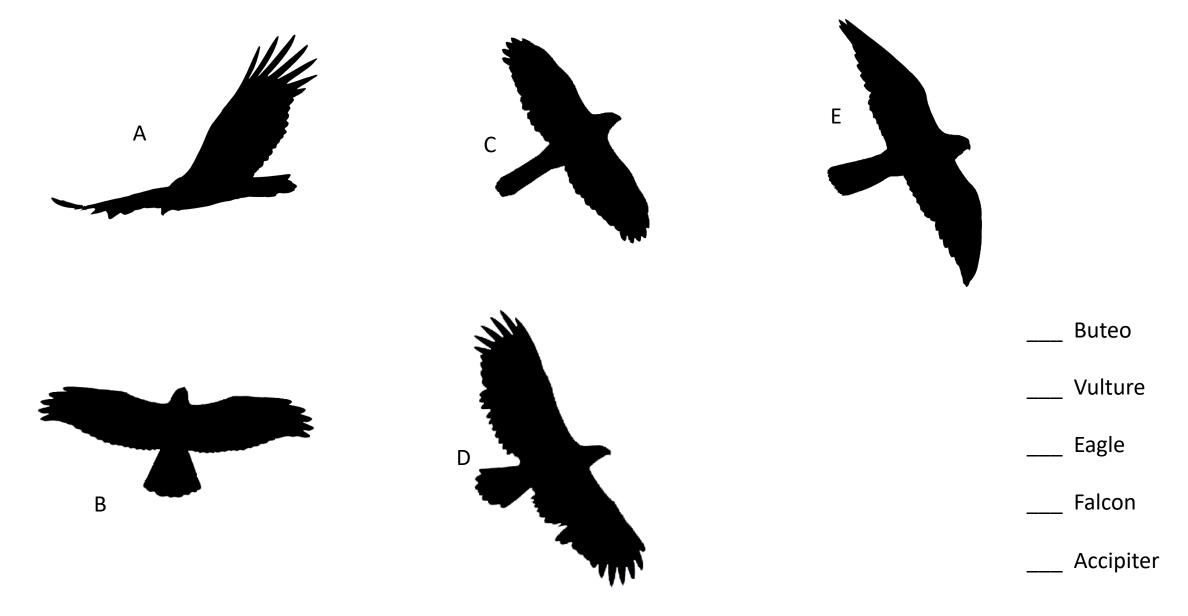
Not a North American Species
This is for you to practice proportions



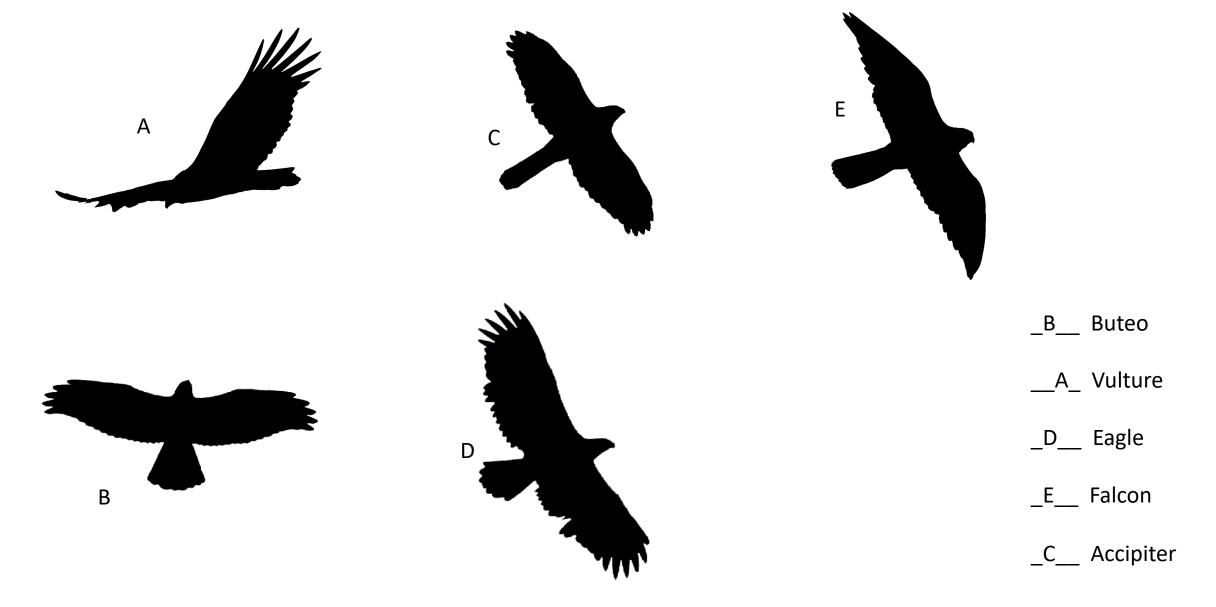


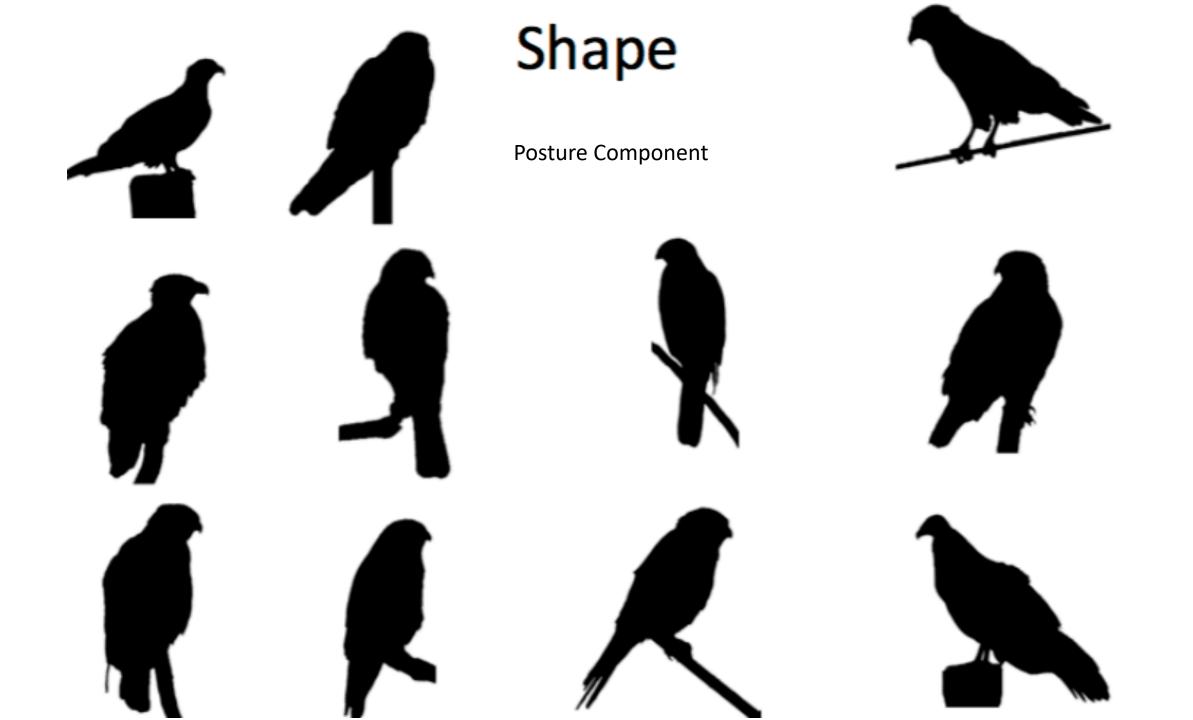
Not a North American Species
This is for you to practice proportions

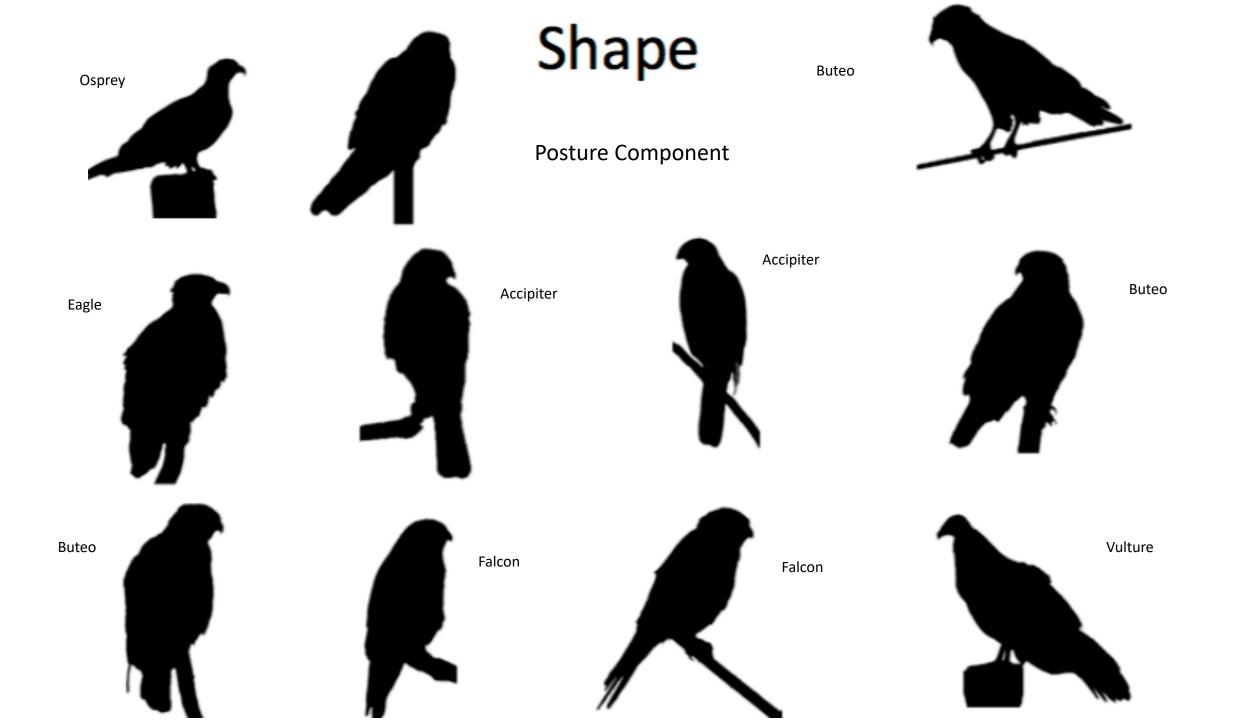
Use Flying Shape to Classify These Raptors into a Group



Use Flying Shape to Classify These Raptors into a Group







Shape



Sharp-shinned Hawk (Accipiter)

Look at wing to tail length

Merlin (Prairie) (Falcon)

Shape





Cooper's Hawk (Accipiter)

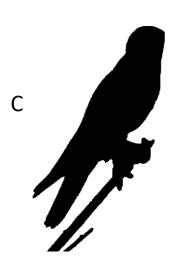
Look at wing to tail length

Red-shouldered Hawk (Buteo)

@ Macaulay Library

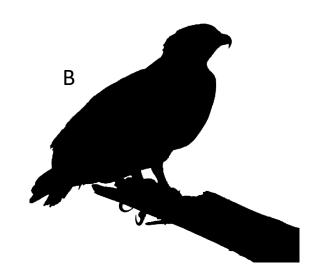
Use Posture to Classify These Raptors into Groups

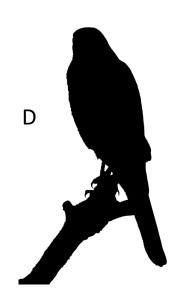






Ε

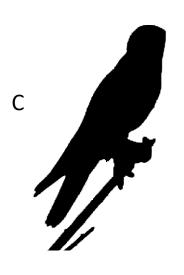




____ Vulture
____ Accipiter
____ Buteo
____ Falcon
____ Osprey

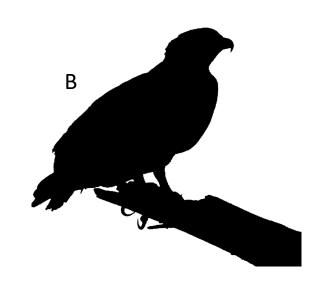
Use Posture to Classify These Raptors into Groups

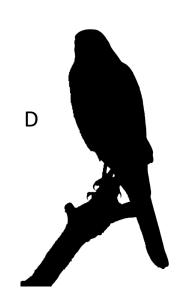






Ε





__E__ Vulture
__D__ Accipiter

__A__ Buteo

__C__ Falcon

__B__ Osprey

How to Identify Raptors

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution
- Calls



White-tailed Kite

Cooper's Hawk (Accipiter)



Behavior

• Flight Style

Foraging Method

Gregariousness

Bobs and twitches

Eagle



Cooper's Hawk (Accipiter)

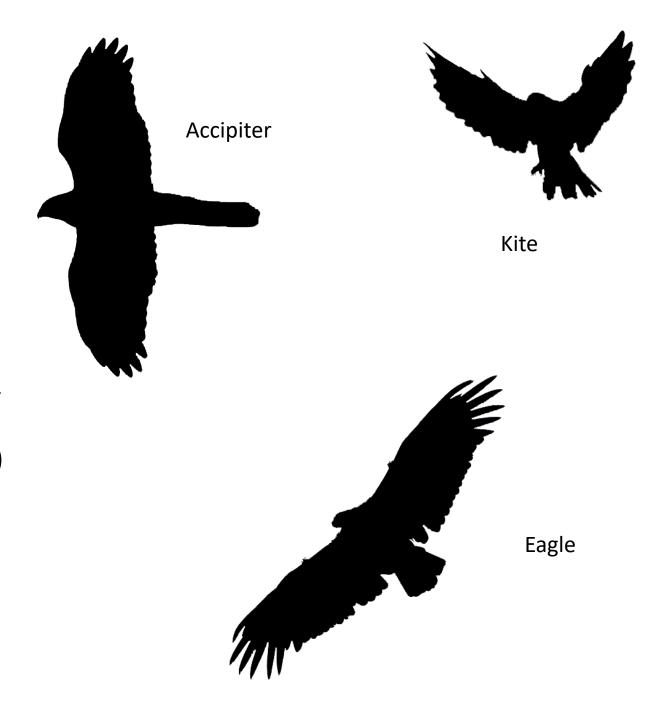


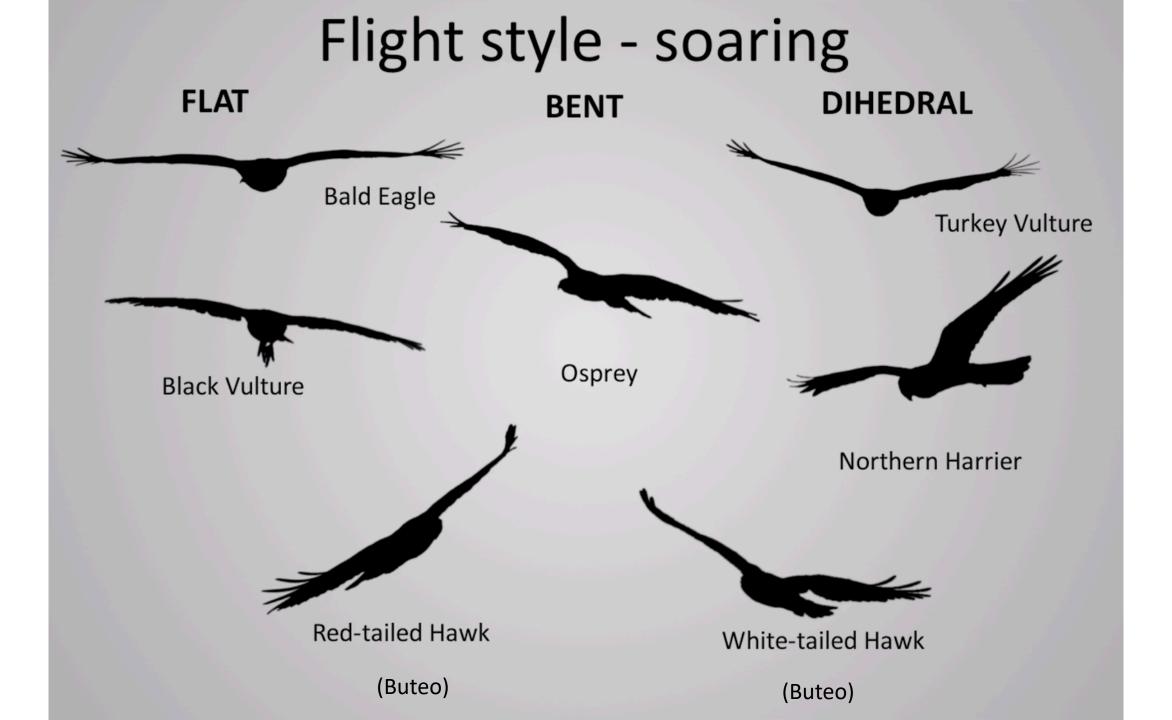




Flight Style

- Soaring
 - Flat, Bent, Dihedral
 - Long or Flap & Soar
 - Power flight (Falcons)
 - Flap, flap, glide (Red-tailed Hawk & Accipiters
 - Glide, flap, glide (Northern Harrier)
- Direct Flight
- Hovering





Flight style - soaring

Long Soar



California Condor



Turkey Vulture



Bald Eagle

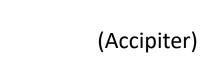


Red-tailed Hawk (Buteo)



Flap and Soar

Cooper's Hawk



Flight style - straight

Power Flight



Prairie Falcon



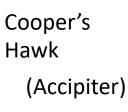
Peregrine Falcon

Flap, Flap, Glide



Sharp-shinned Hawk

(Accipiter)







Red-tailed Hawk

(Buteo)

Glide, Flap, Glide



Northern Harrier

Foraging Method

- Hover
- Perch and drop
- Dash and pursuit
- Soar and stoop
- Low and slow



Gyrfalcon (Falcon)



American Kestrel (Falcon)

Foraging method – hovering

American Kestrel (Falcon)





White-tailed Kite



Rough-legged Hawk (Buteo)

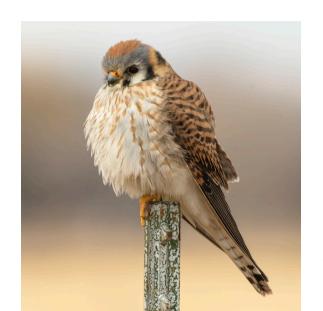


Osprey (Eagle group)

Foraging method – Perch



Swainson's Hawk (Buteo)



Red-tailed Hawk (Buteo)



Rough-legged Hawk
(Buteo)

American Kestrel

(Falcon)
@ Macaulay Library

Foraging method – Dash and Pursue



Northern Goshawk

From in a Forest

Sharp-shinned Hawk



Cooper's Hawk



All Accipiters

Foraging method – Dash and Pursue



Often done from open Or from on the wing



Gyrfalcon





Merlin (Falcon)

Prairie Falcon



@ Macaulay Library

Foraging method – Soar and Stoop



Golden Eagle



Foraging method – Low and Slow



Northern Harrier



Rough-legged Hawk. (Buteo)

Gregariousness – Hawk Migrations



These are
Broad-winged Hawks
(Buteo)
Swainson's Hawks
will also form big
groups in migration

Gregariousness – vultures



Turkey Vultures



Black Vultures



Black & Turkey Vulture

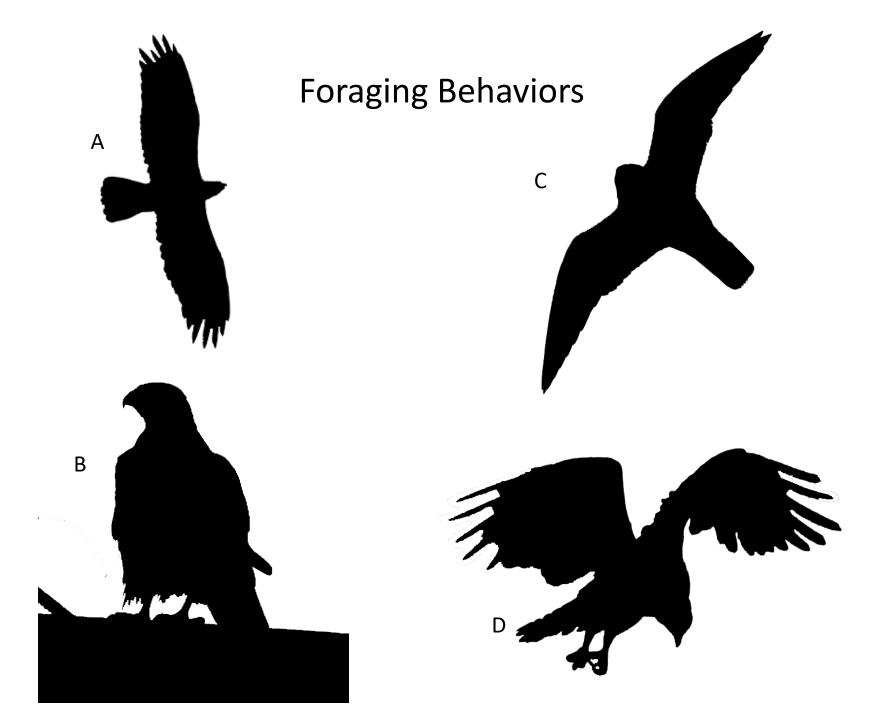


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Bobs & Twitches



American Kestrel (Falcon)



Foraging Behaviors can Help you identify species

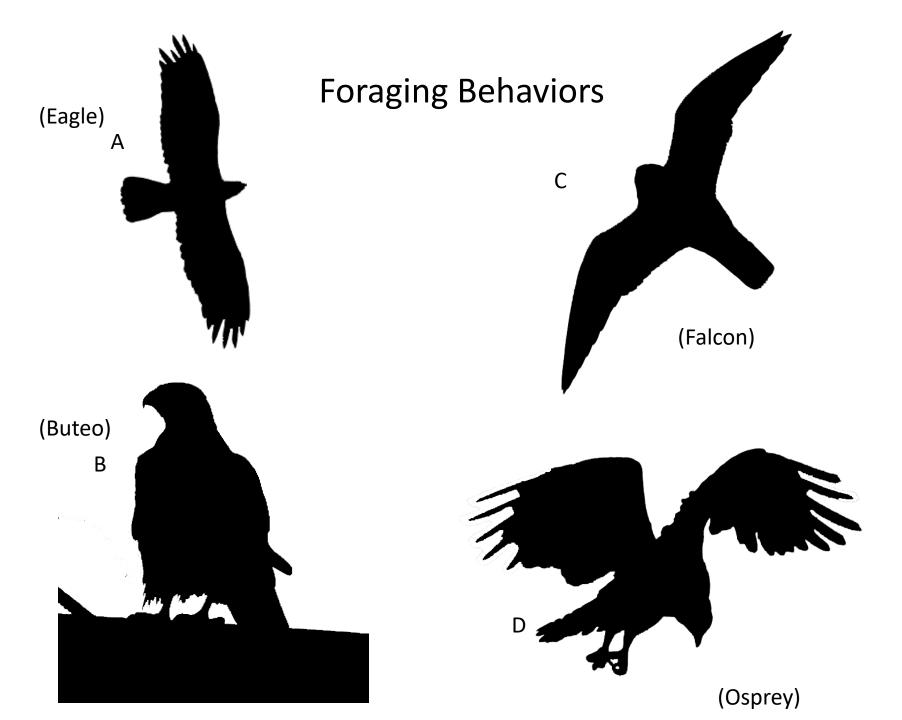
Do you recognize these Behaviors?

___ Hovering

____ Perch & Drop

___ Dash & Pursuit

____ Soar & Stoop



Foraging Behaviors can Help you identify species

Do you recognize these Behaviors?

_D__ Hovering

_B__ Perch & Drop

_C__ Dash & Pursuit

_A__ Soar & Stoop



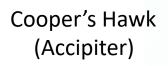
Questions?

Feel free to email me to? gtbancroft@gmail.com

How to Identify Raptors

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution
- Calls







Sharp-shinned Hawk (Accipiter)

Merlin (Falcon)

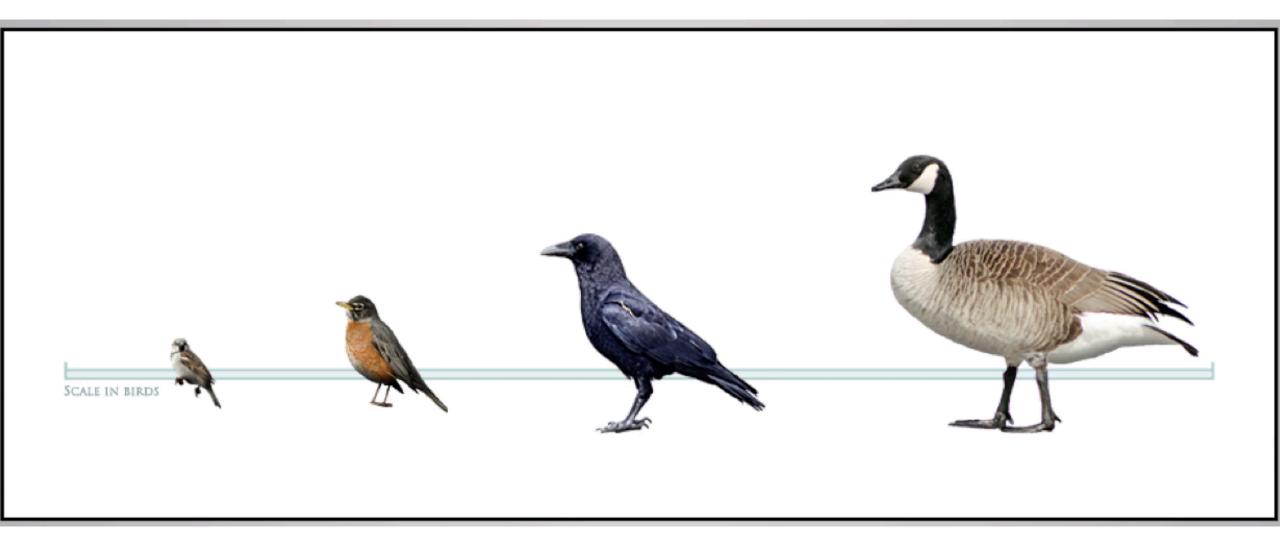
Size — It is relative and hard to tell absolute



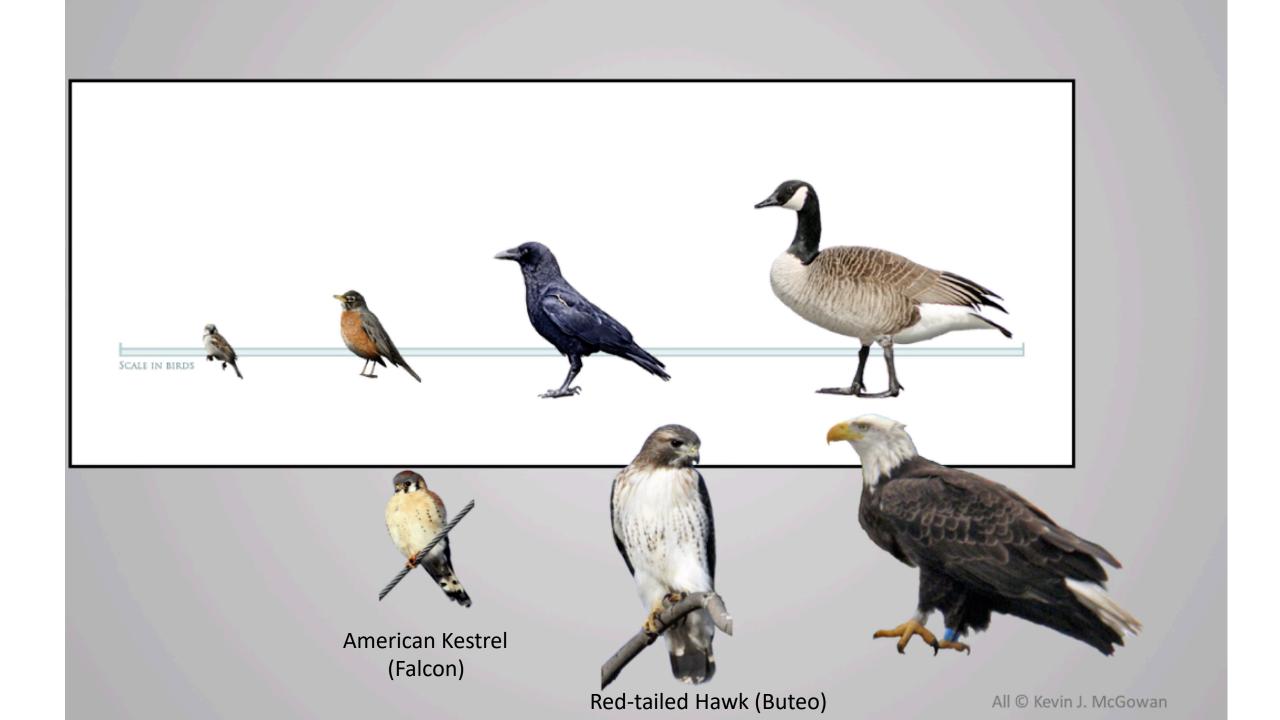
Sharp-shinned Hawk over a Cooper's Hawk (Both Accipiters)

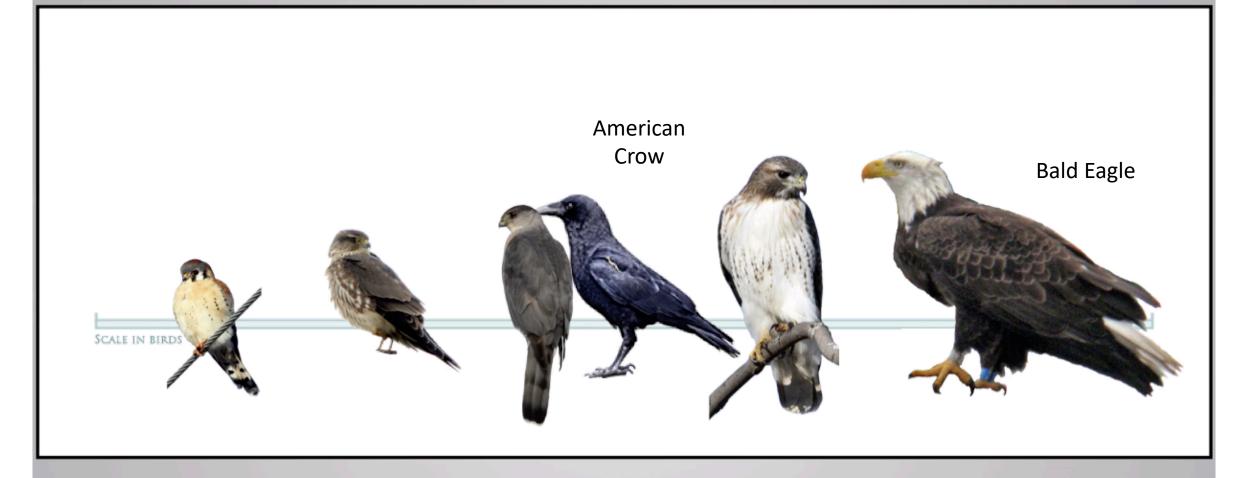
Photo from Feederwatch – taken by Jay McGowan https://feederwatch.org/blog/sharp-shinned-hawk-versus-coopers-hawk/

Size



The Bird Yard Stick - from Kevin McGowan at Cornell Laboratory of Ornithology





American Kestrel (Falcon)

Merlin (Falcon) Cooper's Hawk (Accipiter) Red-tailed Hawk (Buteo)

Size – Larger or Smaller than a Crow?



Red-tailed Hawk (Buteo)

Cooper's Hawk (Accipiter)

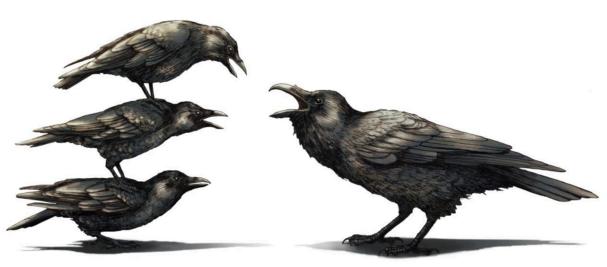
Size – Larger or Smaller than a Crow?





Crow attaching an eagle

Watch out for Ravens!







Raven attacking a Red-tailed Hawk)

How to Identify Raptors

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution
- Calls



American Kestrel (Falcon)

Color Pattern



Red-tailed Hawk (Buteo)





American Kestrel (Falcon)



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Color Pattern

- White Patches
- Barring



Rough-legged Hawk (Buteo)







Tail barring



Red-shouldered Hawk (Buteo)



Red-tailed Hawk (Buteo)



Merlin. (Falcon)



Sharp-shinned Hawk (Accipiter)

@ Macaulay Library

Tail barring



Red-tailed Hawk (Buteo)

Peregrine Falcon



Cooper's Hawk (Buteo)



Where is the White?

- Rump
- Wings
 - Hands
 - Lining
- Tail
- Head



Bald Eagle



Golden Eagle

White Rump



Rough-legged Hawk (Buteo)



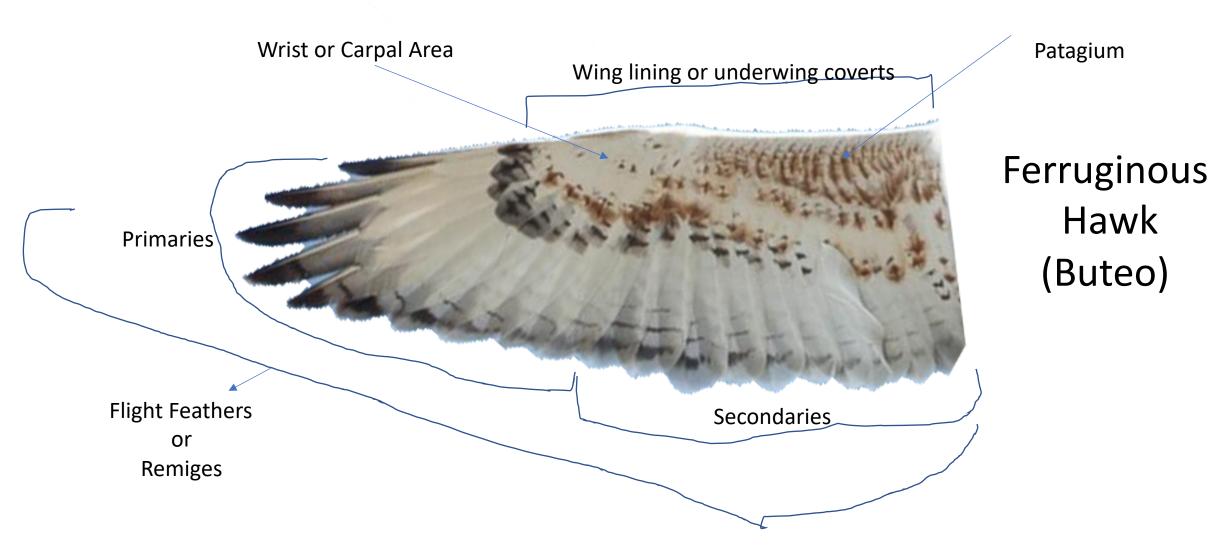
Red-tailed Hawk (Buteo)





Ferruginous Hawk (Buteo)

The Wing in Raptors



White in Lining or Flight feathers?



Ferruginous Hawk



Rough-Legged Hawk



Red-tailed Hawk

These are all Buteo wings





Swainson's Hawk

White in the Wi



Bald Eagle

Red-tailed Hawk (Buteo)

Osprey (Eagle Group)



Rough-legged Hawk (Buteo)







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Outlined?

- Black on leading edge
- Black on trailing edge
- Line or Patch



Northern Harrier



Red-tailed Hawk (Buteo)



Swainson's Hawk (Buteo)

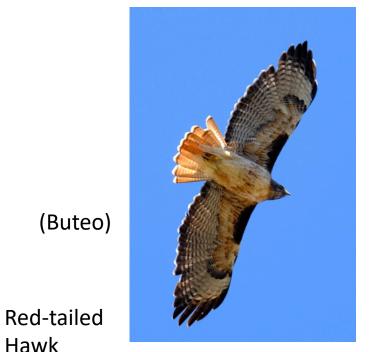
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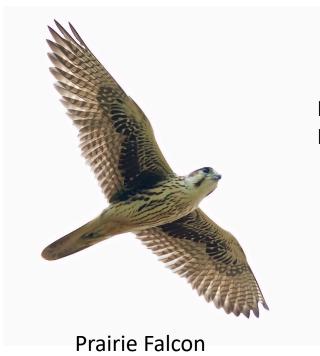
Dark Patches

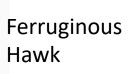
Hawk











(Buteo)



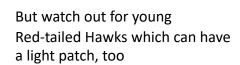
@ Macaulay Library

Light Patches



Red-shouldered Hawk





How to Identify Raptors

- Shape & Size
- Color Patterns (**Markings**)
- Behavior
- Habitat & Distribution
- Calls



Cooper's Hawk (Accipiter)

Markings

- Barring
 - Chest
 - Tail
 - Wings



Red-shouldered Hawk

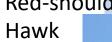


Cooper's Hawk

Barred or Streaked?













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How to Identify Raptors

Ferruginous Hawk (Buteo)

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution

• Calls

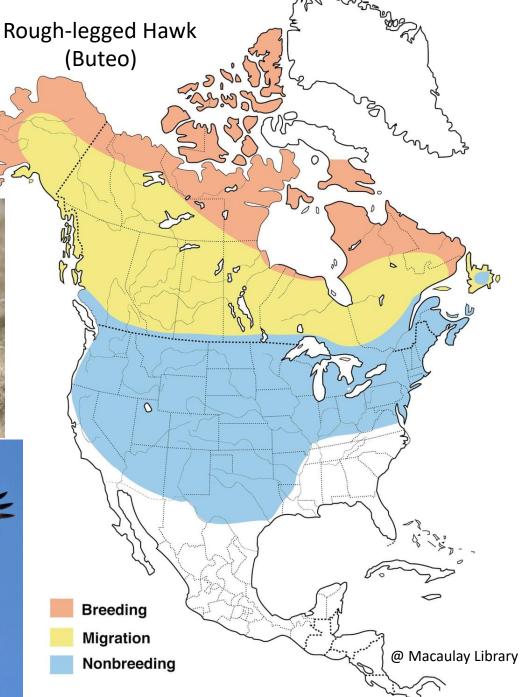




Habitat & Distribution

- Open Country
- Forests
- Wetlands
- Deserts
- Urban Areas





Open Country

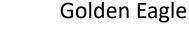
- Red-tailed Hawk
- Swainson's Hawk
- Ferruginous Hawk
- Rough-legged Hawk
- American Kestrel



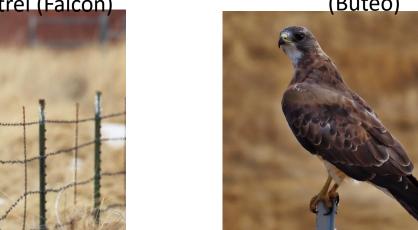


Ferruginous Hawk (Buteo)

- Prairie Falcon
- Gyrfalcon
- White-tailed Kite
- Northern Harrier
- Golden Eagle Swainson's Hawk



Prairie Falcon







@ Macaulay Library

Forests

Red-shouldered Hawk

Broad-winged Hawk

Northern Goshawk

Cooper's Hawk

Sharp-shinned Hawk



Broad-winged Hawk

(Buteo)

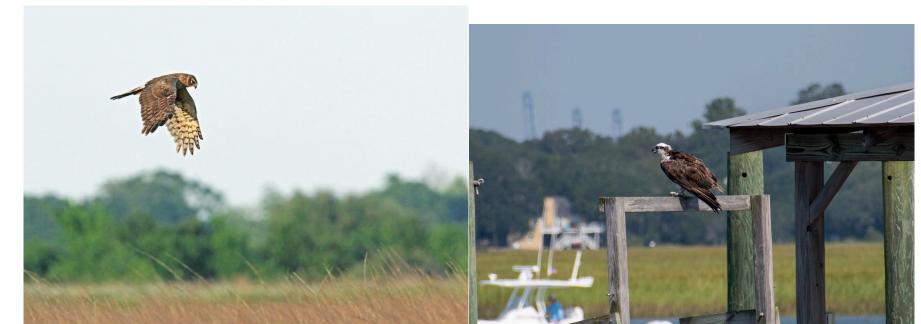


Wetlands

- Osprey
- Bald Eagle
- Northern Harrier

Northern Harrier

Osprey (Eagle group)



Urban Areas

- Peregrine Falcon
- Merlin
- Cooper's Hawk

Red-tailed Hawk



Red-tailed Haw (Buteo)





How to Identify Raptors

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution
- Calls







https://www.allaboutbirds.org/guide/Red-tailed_Hawk/overview

Review – Overview of Raptors

- Shape & Size
- Color Patterns (Markings)
- Behavior
- Habitat & Distribution
- Calls
- Homework
 - Review the PowerPoint
 - Look at photographs in eBird for five species found in Washington
 - Look at some distribution maps in a bird book or on https://www.allaboutbirds.org

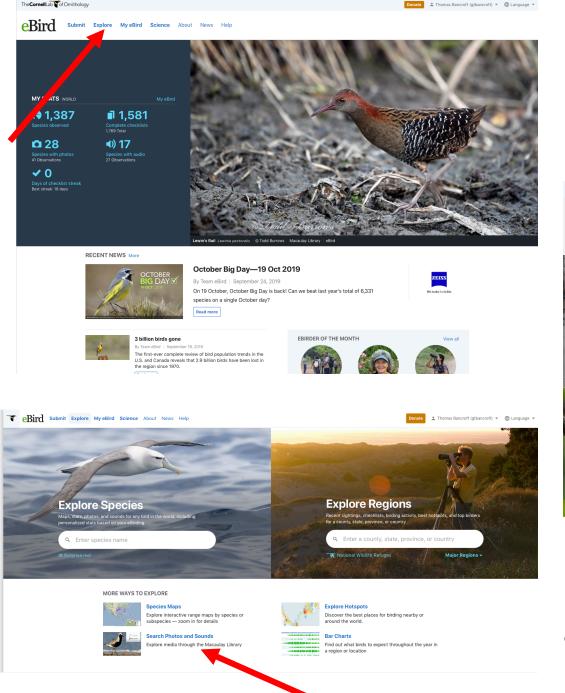
- One bird at a time
- Identify a bird to a broad category
 - Then narrow to a smaller group (7 categories), then to species
- Look for 3 or more clues to identify the bird to species, (Use the 5 characteristics)
- We will take it slow. It takes practice and we are all here to learn and help each other.

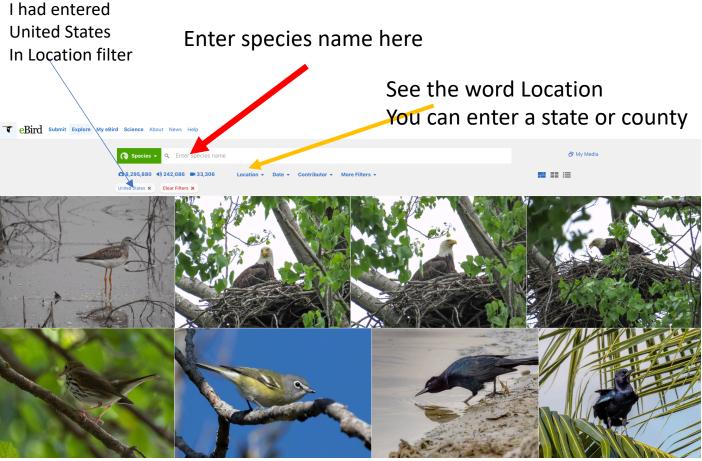
Photo: Okanogan Highlands, Washington

Questions?

gtbancroft@gmail.com







How to use eBird to look at photographs of a species and in a particular state or county.

Five Buteos found regularly in Washington State

