## Meanders Through Time Rivers in Art and History

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Leonardo da Vinci 1503-5

Note meandering river on left, aqueduct on right "Landscape hunters" have identified plausible background in Tuscany.

Senatello and Marecchia rivers?

Olivia Nesci from the University of Urbino, Rosetta Borchia



Upcoming book: Code P by Nesci and Borchia

Rosetta Borchia 2012 photo credit.





Paul Cézanne 1883



But there are a lot of aqueducts...

1882-5 Mont Sainte-Victoire and the Viaduct of the Arc River Valley (France)

Seems to me as if Leonardo employs a mix of reality and I imagination here, but I do like his stream.

## Meanders Through Time – Rivers in Art and History

- A few thoughts on rivers
  - Two definitions
- The science of river forms and evolution
  - Why do rivers meander?
  - Fluvial Geomorphometry
- Rivers in art
- · Rivers as art



What I would like to discuss today:

This talk to brush several topics that could each carry more than an hour of discussion.

Rivers in Art: What can they works say about how we see rivers, and perhaps people from the past viewed rivers.

As you will see this work on art is not exhausted...

# By way of Introduction...

Ganges Eno Thames Limpopo Mekong Severn Amazon Rur Yellow
Danube Po Ni Orange San Lorenzo Mississippi Tigris Cam Porcupine Pishon
Ural Sepik Congo Meander Ottawa Peace Tonto Chagres Lumber Ebro
Brisbane Ohio Padma Rio Grande Seine Euphrates Tar Krishna Uruguay
Yellowstone Jordan Toro Willamette Kwai Rio de la Platta White Deep Roe
Blackfoot Amur Cahulawassee Nile Ob Avon Columbia Trent Suwanee Round
Styx Magdelena Saint-Lawrence Rubicon Rogue Pigeon Yukon Darling
Onyx New Wear Liffey Okawa Tennessee Fly Lena Colorado Cape Fear
Niagara Potomac Yahara Wabash John Celedon Torne Volga Cowlitz
Hudson Murray Delaware Todd Hiwassee Noatak Platte Rhine American
Catawba Missouri Pee Dee Wailuku Don Bosnia Susquehanna Brithor
Yangtze Roanoke Chicago Snake Merrimack Watauga Loire Cuyahoga Stones

There are about 165 major rivers in the world.

Unlike the sea, they are ephemeral . Even the oldest among them, such as the New River, are relatively young geologically; <400 million years or  $\sim10\%$  of earths age.

Many mighty rivers as we know them today have only existed in a from we would recognized for a relatively short time. For example, the Nile as a major river in Africa has only existed for 1-2 million years (Remsen, 2013).

## **Great Rivers of Continents**

Ganges Eno Thames Limpopo Mekong Severn Amazon Rur Yellow

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There are many ways to categorize rivers

### **Great Wild Rivers**

Ganges Eno Thames Limpopo Mekong Severn Amazon Rur Yellow
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### **Rivers of Conflict**

Ganges Eno Thames Limpopo Mekong Severn Amazon Rur Yellow
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Rivers are often boarders between nations even though they are often in the middle of their valleys; in the middle of our activities, cities and resources.

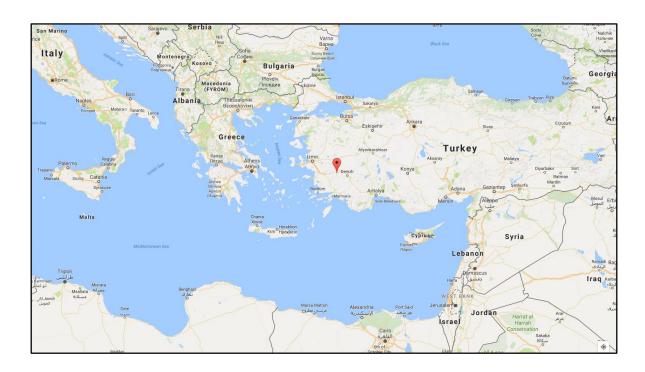
## Other Iconic Rivers, among many...

Ganges Eno **Thames** Limpopo Mekong Severn Amazon Rur Yellow
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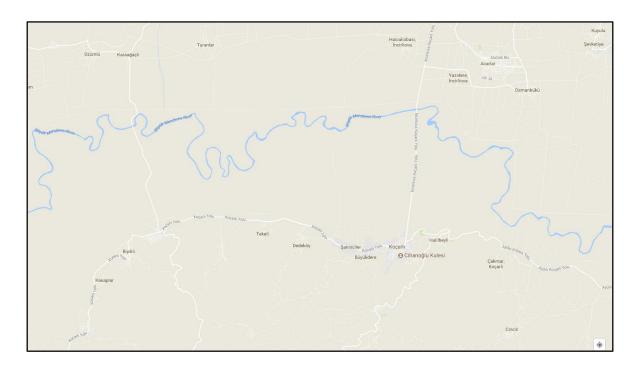
# Meander, Maiandros, Menderes River

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But the first river I would like to discuss in the Meander.



Now found in western Turkey, the Maeander is medium sized river draining to the Aegean Sea  $\,$ 



Looking closer we can see highly sinuous course of the meander



It passes through a broad relatively flat plain constrained by steep hilly ground to the north and south of the river valley.



Portions of the Meander meander quite a bit

## Definition #1: Meander

VERB

1. Follow a winding course.

'a river that meandered gently through a meadow'

2. Wander at random.

'kids meandered in and out'

3. Proceed aimlessly or with little purpose.

'a stylish offbeat thriller which occasionally meanders'

NOUN

1. A winding curve or bend of a river or road.

'the river flows in sweeping meanders'

2. An indirect or aimless journey.

'a leisurely meander round the twisting coastline road'

3. An ornamental pattern of winding or interlocking lines.

Origin:

Late 16th century (as a noun): from Latin maeander, from Greek Maiandros, the name of a river (see Menderes).

First use in English 1599. First use in Greek 760-710 BC (Iliad).

This brings me to my first definition. As you may already know, or have gathered by now, our modern word meander comes from the example of the Meander River.

https://en.oxforddictionaries.com/definition/meander

16th century English word from 8th century BC place name

#### The Iliad

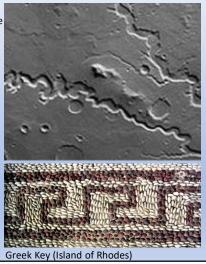
And Nastes again led the Carians, uncouth of speech, who held Miletus and the mountain of Phthires, dense with its leafage, and the streams of Maeander, and the steep crests of Mycale.

# A natural understanding of meanders

#### A few examples:

Lewis and Clark
John Wesley Powel
William Shakespeare
Leonardo Da Vinci
Henry Thoreau
Aldo Leopold
Confucius
NASA
Greek Key

Eberswalde Crater Delta (Mars)



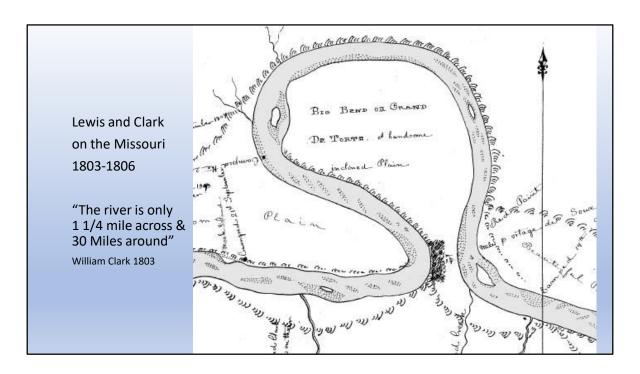
It is not just a modern concept that rivers meander. The word meander may been coined by the Greeks BC, and entered the English language in the 16<sup>th</sup> century but the concept of a winding river is both an ancient and an evolving science. I'll touch on a few examples of this context from examples as diverse as classic Greek to NASA's exploration of our solar system.

Bookend with discussion of Greek Key and meanders on other worlds:

Greek Key used in architectural freezes and on pottery from 900BC – Present.

Confucius describing water as "twisting around ten thousand times but always going eastward" 5<sup>th</sup> century BC

NASA has seen meanders on at least three planetary bodies. Winding channels on Titan (A moon of Saturn)



Note that this detail covers three days travel up the Missouri, almost 60 river miles.

Three camp sites are marked on the map

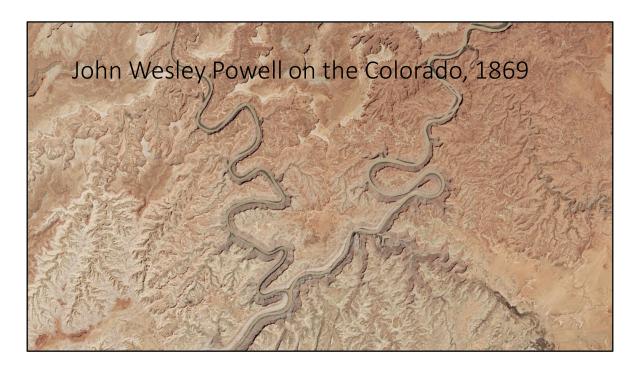
Clark notes that 1/25 mile would cover 30 river miles.

From a bluff Clark could see this extent.

A channel, again in a wide floodplain.

L & C took measurements of rivers that stand up to modern methods.

Their notes indicate a lot of sediment moving through the system.



Colorado and Green Rivers near Canyonlands National Park, Utah

Powell (first Secretary of Interior) descended Colorado with a party in open wooden boats (he made this journey with only one arm).

Described river pattern in detail and his survey proved the surprising fact that the river travels into higher and higher ground as it flows south (evidence of continental scale uplift)

Photo credit (Nasa)



Shakespeare's Henry IV part one, famous for it presentation of Price Hal and Falstaff, contains a clear statement and **understanding of the nature of a river to meander**.

#### Introduce plot of the scene:

Henry the 4<sup>th</sup> is king but seems valuable

His son (to be Henry V) is taking nothing seriously – prefers taverns Owen Glendower, Henry Percy (Hotspur), Edmund Mortimer plot against him (some had helped him become king)

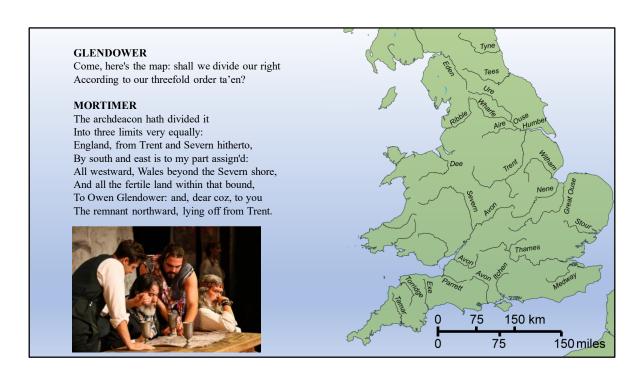
Glendower, Hotspur, Mortimer and Worcester and meeting in front of a map to discuss splitting up England after their presumptive defeat of Henry Bolingbrook.

Shakespeare. 1597 (420ya)

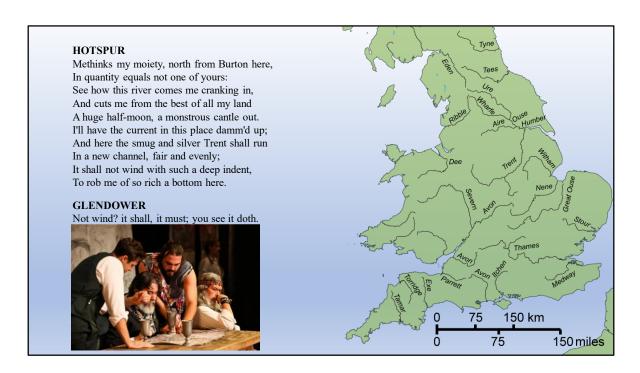
Production photo from Garden Grover Theater 2017 (LA) King Henry IV Part 1 GLENDOWER

Come, here's the map: shall we divide our right

According to our threefold order ta'en?



Outline the three parcels



Just when all seems agreed upon...

Hotspur notes that the Trent River meanders far into his piece of the pie and suggests straightening it out to get more land. Perhaps in jest(?) but Glendower is having none of it and is ready to fight over it.

"Not wind? it shall, it must; you see it doth."

Cantle (curve on a saddle)



The River Trent these days, likely a smaller meander than indicated by Shakespeare.

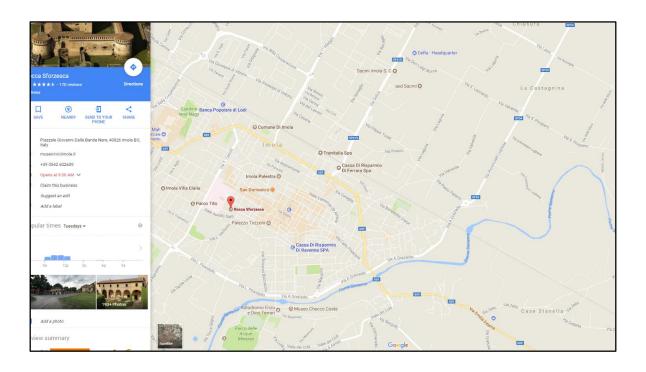
But it does seem as if both Shakespeare and his audience may have know that the Trent river meandered and changes course.

Trent River famous for changing course over history. Many old channel form present in modern landscape.



Another example, this time from Italy near Bologna

Plan of Imola 1502, by Leonardo da Vinci. (near Bologna) Flume Santero



Imola today Fortress founded in 13<sup>th</sup> century Near Bologna

Meander pattern seems to be further east these days, but roads and river clearly those mapped by Leonardo.



Not only was Leonardo mapping the streets, but the river itself in detail He seems to have drawn current and sediments.

Which brings me to ... Rivers...

#### NOUN

- 1 A large natural stream of water flowing in a channel to the sea, a lake, or another river.
- 1.1 A large quantity of a flowing substance.

#### Origin:

Middle English: from Anglo-Norman French, based on Latin riparius, from ripa 'bank of a river'.

https://en.oxforddictionaries.com/definition/river

We all know what a river is, and this definition seems to encompass general views of what a river is.

It is true that the second definition —Lava to glacial ice kind of is a broad range but seems to meet our experience. But the words origin from "bank of a river" (riparian today) seems to conflict a bit with the concept of flowing...

[This is a hint that the definition is full of inconsistencies and holes]

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#### But what is a river?

It begins at a source and flows down to its mouth, it runs

Yet rivers do not leave the hills

Rivers have banks and channels, pools and riffles

Yet a river may leave its banks

Or, once gone, leaves only a riverbed

"On those stepping into rivers staying the same other and other waters flow" Heraclitus (c 536-475 BC) or, popularly, "One cannot step into the same river twice."

What is a river? Water? A channel? A flow? "I knows it when I sees it"?

#### Or, more elegantly:

At what point in its course does the Mississippi become what the Mississippi means? — (T.S. Eliot, Introduction to The Adventures of Huckleberry Finn)

Heraclitus: This is generally taken to refer to the seeming contradiction between our calling a river "the same", while knowing that the material constituents of a river, the "waters", have completely changed.

Not just a flux, not just a channel through a valley

1 A large natural stream of water flowing in a channel to the sea, a lake, or another river.

Can we see any other cracks in this definition? **Every word** has a weakness:

"Large" – okay – not a stream, no clear distinction between a river and a stream

Could not you define a stream as "A small natural river of water..."

Large stream is a circular argument.

"Natural"? In most cases, sure. (Whitewater Center, LA River, Panama Canal = Chagres) "Stream"? In not a stream small? I thought this was a river... Flux a better word? Flow? "Flow of water flowing"? Not getting to far here.

"Water" – Lava, ice, air of the jet stream (Not stream again! The jet stream is huge) "Channel? Must it be in its channel? What about a river in flood?

"Bypass reach" is what engineers call a river than misses the turbines.

To the sea etc? Not always – The Colorado River last reached the sea in 1998. Many rivers end on a plain.

#### NOUN

1 A large natural stream of water flowing in a channel to the sea, a lake, or another river.

**Legal**: A natural stream of water, of greater volume than a **creek or rivulet**, flowing in a **more or less** permanent bed or channel, between defined **banks or walls**, with a current which may either be continuous **in one direction or affected by the ebb** and flow of the tide. (Black's Law Dictionary)

Mainstream media: A river is a large, natural stream of flowing water (National Geographic)

Internet: A natural flowing watercourse, usually freshwater, flowing towards an ocean, sea, lake or another river (Wikipedia)

Educational: A natural stream of freshwater that has a current and moves towards another body of water (MonkeySee)

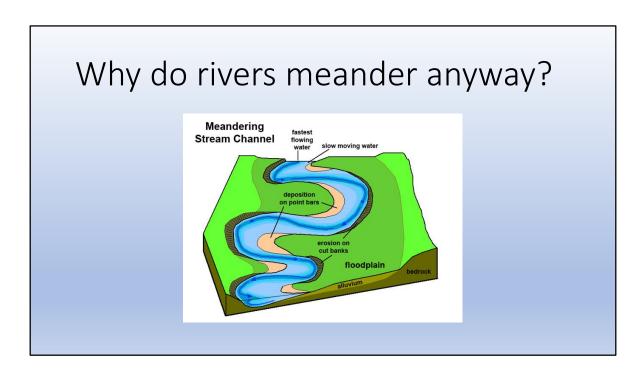
**Scientific**: Water flowing on the Earth's surface (USGS) **Poetic**: The river is a strong brown god (T.S. Eliot)

A dynamic channel-forming flow of water and sediment descending a landscape.

There are other definitions.

Legal definition has a lot of loopholes...

My definition is also assailable but I'm going with it for now. (Because it helps generally define the environment I encounter most often)



Most efficient way to get water downstream is a straight line. But what is most effect wat to get water and sediment downstream?

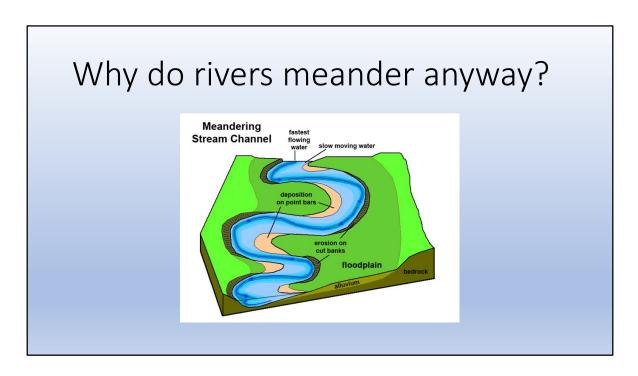
Santa Cruz example San Lorenzo River (Overly large channel build to prevent flooding) It moved water straight to the ocean from the Santa Cruz Mountains but moved it too slowly to carry much sediment. Sediment filled the channel until flooding again threatened)

"Any river is really the summation of the whole valley. To think of it as nothing but water is to ignore the greater part". — (Hal Borland, This Hill, This Valley)

Discuss simple processes that result in an efficient meandering channel that moves water and sediment.



LA River with low flow channel (one possible solution to San Lorenzo River issue, sediment shifted by low flow channel)



Variation in soils, bedrock form and debris (trees) of course can and do change the direction of rivers.

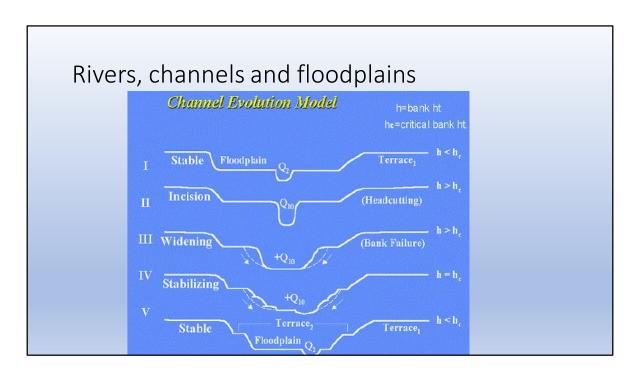
Continual process of erosion and deposition

"Does the least work in turning and hence most probable form "Luna Leopold"

Adjustment process towards Uniform Power.

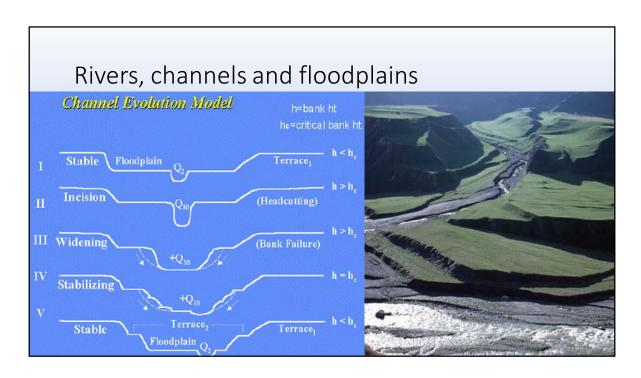
Down valley migration of meander bends.

And, over geologic time, downcutting and terrace formation.

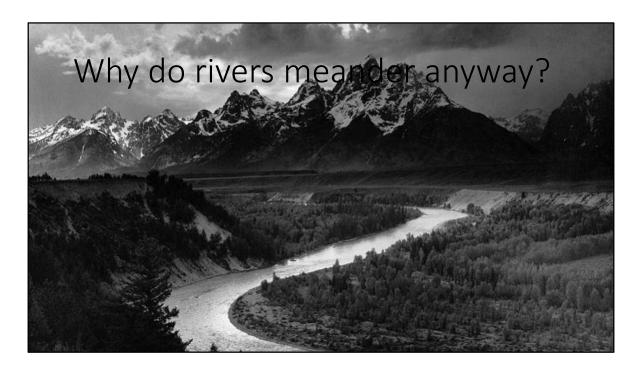


Pseudo-stability of a channel in a alluvial floodplain.

Stable dimension for generations. Terrace formation over geologic time.



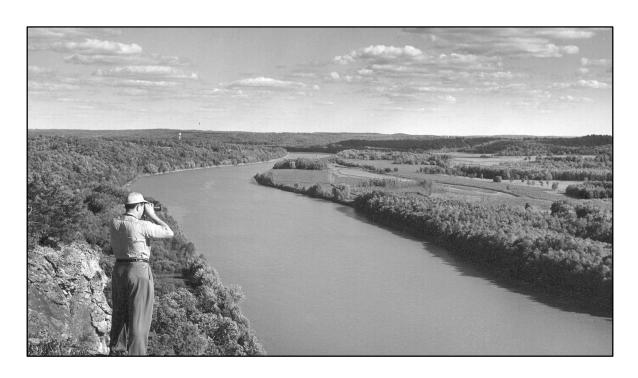
Pseudo-stability of a channel in a alluvial floodplain. Terraces formed over periods of climatic change.



**Ansel Adams** 

Point bars, terraces, floodplain and valley built by the river.

Snake River approaching the Tetons

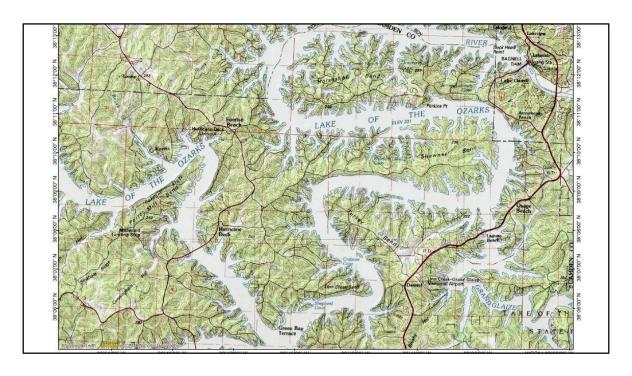


Osage River - Ozarks of Kansas and Missouri

In classic history (no longer taught?) Egypt was "the gift of the Nile", according to Herodotus (485-425BC).

Often taken to mean that the fertile land was the gift from spring floods. But he meant more:

What Herodotus means is that it is the deposit and hence the creation of the river and that it was once march or sea.



Osage is no longer a meandering river but a lake and tiny delta.

## Rivers in Art

The Flight into Egypt

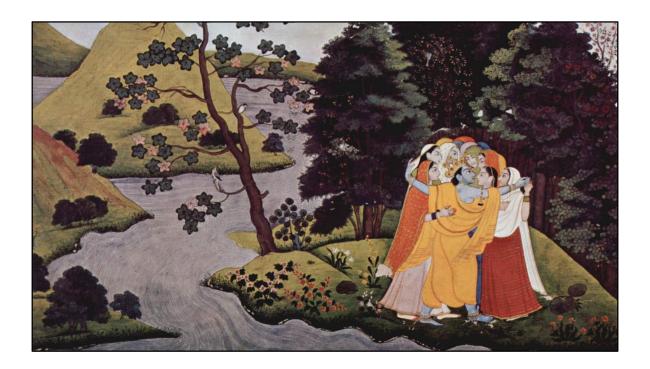


So, what can we discover about how other people have and do think of rivers? Can we find out what rivers of the past we like?

Panel from The Flight into Egypt, Giovanni di Paola, 1436

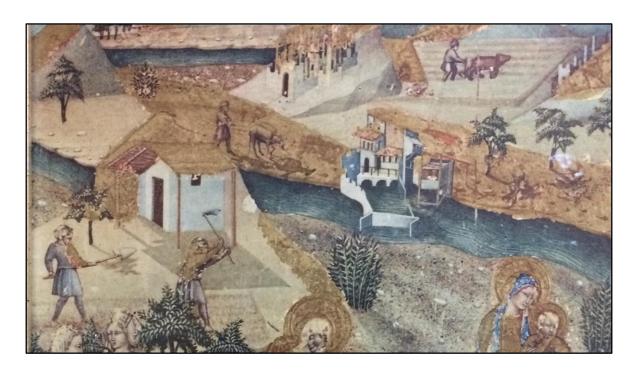
Note river in far background...

This print, from my grandmother's kitchen wall, has always intrigued me.



Quick aside: I need to point out my western bias (from experience) but this talk could certainly be based upon many cultural artforms.

Krishna embraces Gopîs, Gîtâ-Govinda-manuscript, 1760–1765.



Some detail in the current and banks.

Mill and other structures perhaps not from Middle East and scale is a real issue...

Any realism in the river? Is there a pool on the meander bend behind the hill?



The Flight into Egypt Vittore Carpaccio 1515 A popular subject, often with rivers



Perhaps not to Egypt yet... Landscape with the Flight into Egypt is an 1563



Jan Griffier-the-Elder-Two-Panoramic-River-Lands 1652

One common features I see in early landscapes is a lot of controlling structure being employed to determine river's shapes; **Meanders banging off hard points of land**. Many examples of such landscapes where you get the sense that the shape of the mountains and rocks determine the shape of the river (rather than vice-versa).

But to be fair, here, in the distance there is one meander bend not required by rock.



Jan Griffier-the-Elder-Two-Panoramic-River-Lands #2 1652

Again, at least in the foreground river shape controlled by hills and ridges.



Jan Peeter van Brenael River Landscape with Anglers. 1704

Again, less meandering than being pushed around by hard landscape and small ridges.



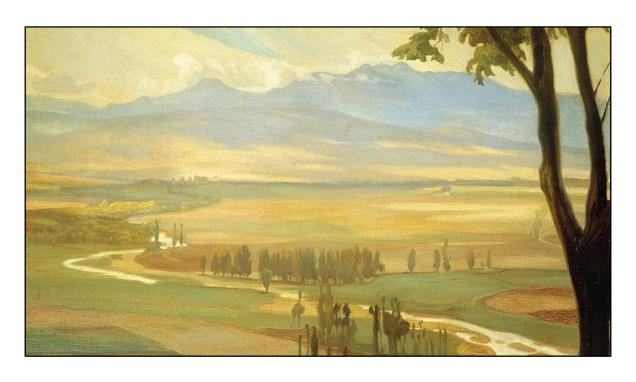
Mountainous Landscape with River Valley and Castles, Jan Meerhout, 1661



River Valley, Hercules Segers, c. 1626 - c. 1630 This river in the background really becoming the river's valley as it sets its own shape once past one ridge and one outcrop.



Asher Brown Durand 1853



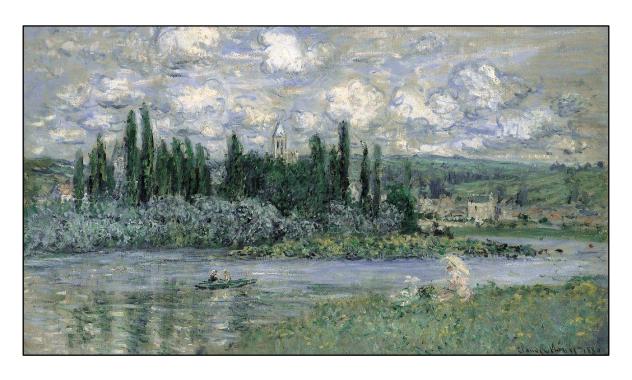
Diego Rivera Avila Morning The Ambles Valley 1908 (River Adaja)



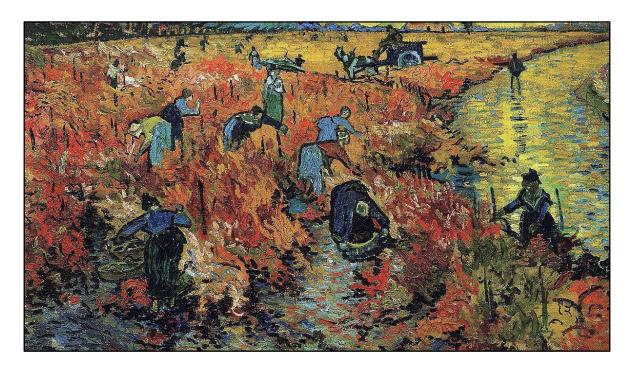
Thomas Cole The Oxbow 1836 This river seems to be in charge of its valley Hudson School



Marla Brenner Breaking Clouds on the Yahara River



Claude\_Monet\_Vétheuil\_sur\_Seine\_1880

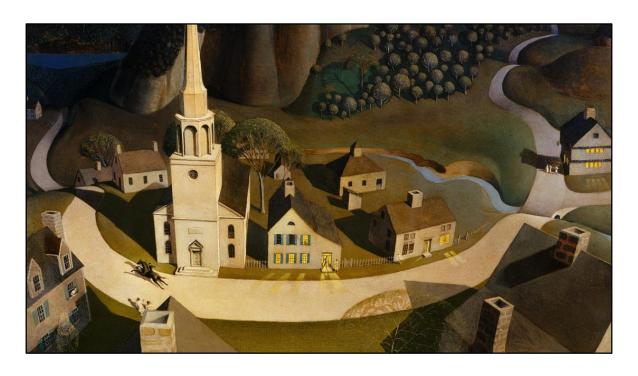


Red Vineyards near Arles Vincent van Gogh 1888



Riverbanks Paul Cezanne 1905

Just pointing out yet another wonderful river scene that may not inform this discussion much...



The Midnight Ride of Paul Revere Deeply cut meander bends an interesting feature in this fantastic landscape

Artist: Grant Wood (American, Anamosa, Iowa 1892–1942 Iowa City, Iowa)

Date: 1931



Claude Lorrain Landscape with dancing figures. 1650s Seems like a plausible landscape...



Claude Lorrain Worship of the Golden Calf (1653). One of at least three scenes with same river

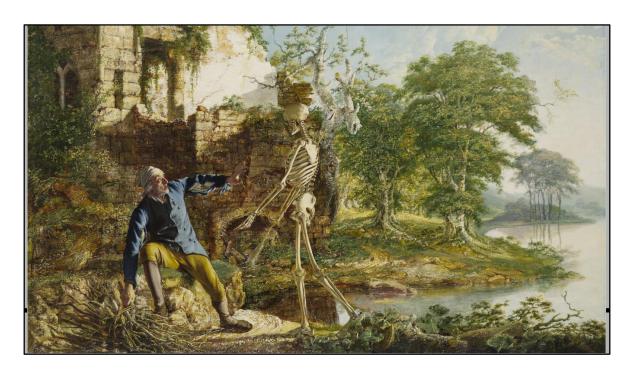


Pastoral Landscape Same river shapes in very different landscapes



Plate depicting the story of Perseus and Andromeda from the Isabella d'Este service. About 1524 Museum of Fine Art - Boston

So much subject in the way of the view!



Difficulty that subject is rarely the river The Old Man and Death Joseph Wright of Derby 1774



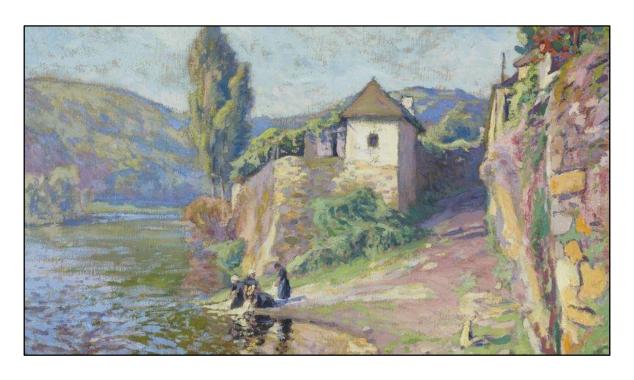
Winslow Homer Has his interest in the ocean crept in here?



Freighter Inviken, Richard De Wolfe 2011 Modern subject dominating the perspective



The Hay Wain is a painting by John Constable, finished in 1821 Scenes showing uses of the river can be helpful



Gathering places



Les\_jeux\_d'enfants\_Pieter\_Brueghel\_l'Ancien 1560

Four swimmers in a meandering river below a mill.

Reflections make it difficult to see, but the river course is quite sinuous.

## Rivers as Art

Water is the driver of Nature

Leonardo da Vinci

America is a great story and there is a river on every page of it Charles Kuralt

Eventually, all things merge into one, and a river runs through it Norman Maclean

There are many, many river quotes. Art is more than paintings but many of my examples are in this from. But there are plays, songs, books poems photographs and other forms of art that will tell you about rivers.

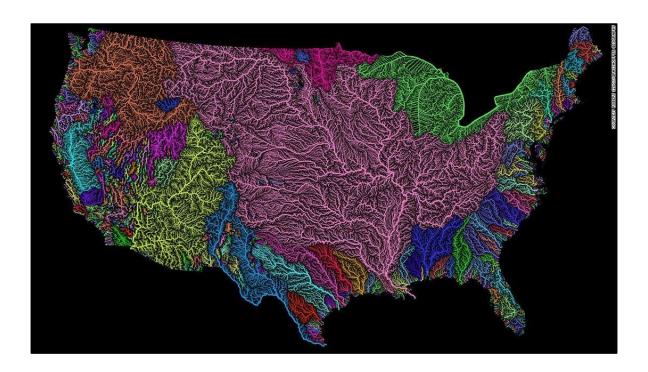


The meander motif took its name from the river Meander. The motif is also known as Greek key.



National Geographic

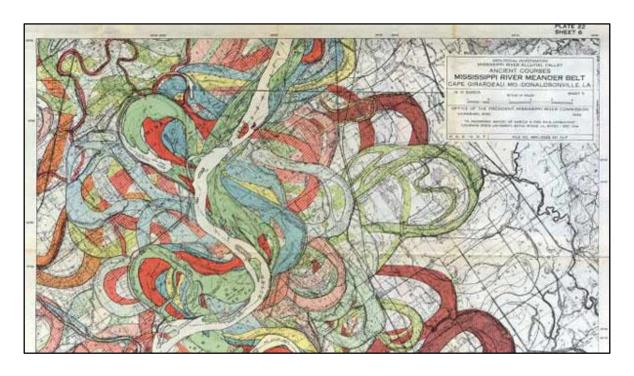
Clearly rivers are calendar fodder



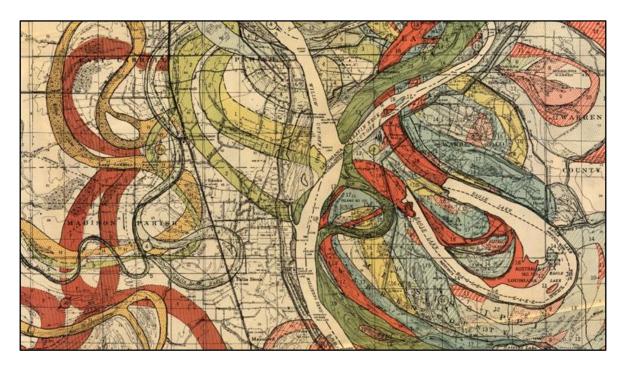
**GIS artist Robert Szucs** 

Point out great lakes

Not extent of Mississippi is clipped here – extends into Canada (and a bit further to Chicago via reversal of Chicago River)



Soils map of lower Mississippi



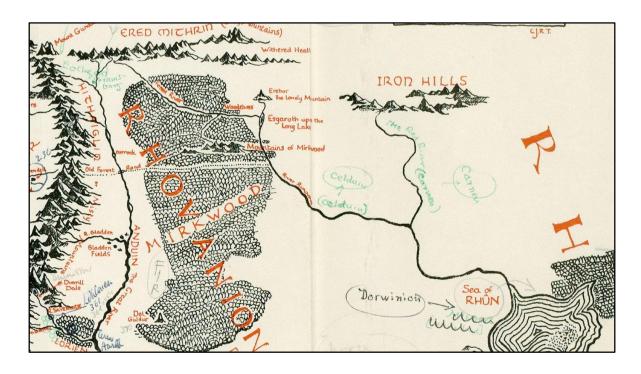
THE ALLUVIAL VALLEY
OF THE LOWER
MISSISSIPPI RIVER
Harold Fisk, 1944



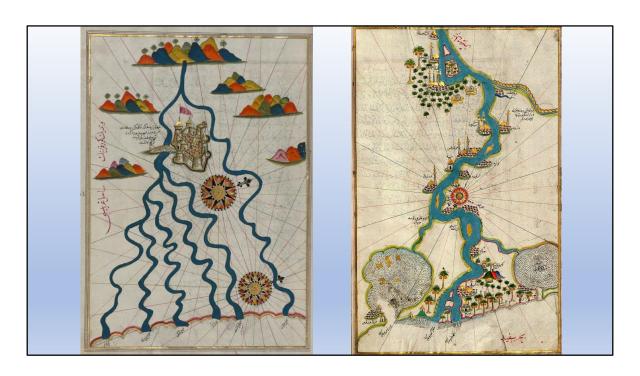
Compare to above and note old State lines



Disney movie Intro

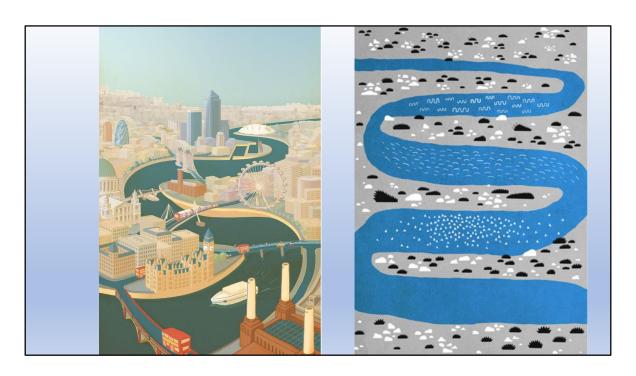


J. R. R. Tolkien The Hobbit



City of Ferrara with the Six Rivers Flowing into the Gulf of Venice

Illuminated Manuscript, Map of the Nile River with various oases on each as far as Sīdī Maʿrūf from Book on Navigation, Walters Art Museum Ms. W.658, fol.310b Originally composed in 932 AH / 1525 CE and dedicated to Sultan Süleyman I ("The Magnificent"), this great work by Piri Reis (d. 962 AH / 1555 CE)



Sam Bevington Tyler Besty



Abby Phillips Metzger

Willamette River sild deposits and old channels



Photographs of Icelandic Rivers from above, captured by Russian photographer Andre Ermolaev.



Narcity Media Lava



China



Lena – Landsat 2000 false color image Also in the Nature Research Center visible from 1-3 floor stairs (Herodotus)



Artic river



The banks of the great grey-green, greasy Limpopo River, all set about with fever-trees Rudyard Kipling

## Further reading

- A River Runs Through It and Other Stories by Norman Maclean
- Trout fishing in America by Richard Brautigan
- A View of the River by Luna Leopold
- The Meaning of Rivers by T. S. McMillin
- Adventures of Huckleberry Finn by Mark Twain
- Hidden Treasure Traffic
- Elk River Falls by Billy Collins



## Elk River Falls

is where the Elk River falls from a rocky and considerable height, turning pale with trepidation at the lip (it seemed from where I stood below) before it is unbuckled from itself and plummets, shredded, through the air into the shadows of a frigid pool, so calm around the edges, a place for water to recover from the shock of falling apart and coming back together before it picks up its song again, goes sliding around the massive rocks and past some islands overgrown with weeds then flattens out and slips around a bend and continues on its winding course, according to this camper's guide, then joins the Clearwater at its northern fork, which must in time find the sea where this and every other stream mistakes the monster for itself, sings its name one final time then feels the sudden sting of salt.

## Billy Collins



## Nomad Harper Lee