From:	Nguyen, Trinh@Wildlife
To:	Rosemary.Hartman@water.ca.gov; Pien, Catarina L; Bosworth, David@DWR; Bashevkin, Sam@Waterboards; Gaeta, Jereme@Wildlife; Mahardja, Brian
Subject:	RE: [EXTERNAL] RE: Perhaps useful functions?
Date:	Wednesday, 7 February, 2024 1:38:38 PM

Thanks Rosie and Dave! Using the indices of blank links to find the table was a clever approach.

Comparing to your code made me realize I didn't need to collapse the table with a newline label before reading it via read.table since strsplit already does this. Thanks for sharing!

From: Hartman, Rosemary@DWR <Rosemary.Hartman@water.ca.gov>
Sent: Wednesday, February 7, 2024 12:58 PM
To: Pien, Catarina L <cpien@usbr.gov>; Bosworth, David@DWR <David.Bosworth@water.ca.gov>; Bashevkin, Sam@Waterboards <Sam.Bashevkin@Waterboards.ca.gov>; Nguyen, Trinh@Wildlife <Trinh.Nguyen@Wildlife.ca.gov>; Gaeta, Jereme@Wildlife <Jereme.Gaeta@Wildlife.ca.gov>; Mahardja, Brian <bmahardja@usbr.gov>
Subject: RE: [EXTERNAL] RE: Perhaps useful functions?

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If anyone wants to see how Bos and I did it, I was going to use WYT in the graph gallery for the IEP workshop data training, so the code is now up on github: https://github.com/InteragencyEcologicalProgram/iep-data-workshop-2024/blob/main/code/WaterYearType.Rmd

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From: Pien, Catarina L <cpien@usbr.gov>
Sent: Wednesday, February 7, 2024 12:47 PM
To: Bosworth, David@DWR <David.Bosworth@water.ca.gov>; Bashevkin, Sam@Waterboards <Sam.Bashevkin@Waterboards.ca.gov>; Hartman, Rosemary@DWR <Rosemary.Hartman@water.ca.gov>; Nguyen, Trinh@Wildlife <Trinh.Nguyen@Wildlife.ca.gov>; Gaeta, Jereme@Wildlife <Jereme.Gaeta@Wildlife.ca.gov>; Mahardja, Brian <bmahardja@usbr.gov>
Subject: RE: [EXTERNAL] RE: Perhaps useful functions?

Thank you so much Trinh! I was going to ask you about scraping WYT during your tutorial but we ran out of time! I'll test these out in the next few weeks and share with science division.

From: Bosworth, David@DWR <David.Bosworth@water.ca.gov>
Sent: Wednesday, 7 February, 2024 12:23 PM
To: Bashevkin, Sam@Waterboards <sam.bashevkin@waterboards.ca.gov>; Rosemary.Hartman@water.ca.gov; Nguyen, Trinh@Wildlife <trinh.nguyen@wildlife.ca.gov>; Pien, Catarina L <cpien@usbr.gov>; Gaeta, Jereme@Wildlife <Jereme.Gaeta@Wildlife.ca.gov>; Mahardja, Brian <bmahardja@usbr.gov>

Subject: [EXTERNAL] RE: Perhaps useful functions?

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Awesome! Thanks for sharing this Trinh! I agree that it's interesting to see how you ended up scraping the WSIHSIT tables. Its always great to see how others code – I learn so much from it.

From: Bashevkin, Sam@Waterboards <Sam.Bashevkin@Waterboards.ca.gov>
Sent: Wednesday, February 7, 2024 12:17 PM
To: Hartman, Rosemary@DWR <Rosemary.Hartman@water.ca.gov>; Nguyen, Trinh@Wildlife <Trinh.Nguyen@Wildlife.ca.gov>; Pien, Catarina L <cpien@usbr.gov>; Gaeta, Jereme@Wildlife <Jereme.Gaeta@Wildlife.ca.gov>; Mahardja, Brian <bmahardja@usbr.gov>; Bosworth, David@DWR <David.Bosworth@water.ca.gov>
Subject: RE: Perhaps useful functions?

This is great, thanks Trinh!

From: Hartman, Rosemary@DWR <Rosemary.Hartman@water.ca.gov>
Sent: Wednesday, February 7, 2024 12:15 PM
To: Nguyen, Trinh@Wildlife <Trinh.Nguyen@Wildlife.ca.gov>; Pien, Catarina L <cpien@usbr.gov>; Gaeta, Jereme@Wildlife <Jereme.Gaeta@Wildlife.ca.gov>; Bashevkin, Sam@Waterboards <Sam.Bashevkin@Waterboards.ca.gov>; Mahardja, Brian <bmahardja@usbr.gov>; Bosworth, David@DWR <David.Bosworth@water.ca.gov>
Subject: RE: Perhaps useful functions?

EXTERNAL:

Hahaha!!!!

Boz and I just spent several hours figuring out how to scrape the water year type tables from WSIHSIT earlier this week! It's interesting to see how you ended up doing it. Thanks for sharing!

Rosie

From: Nguyen, Trinh@Wildlife <Trinh.Nguyen@Wildlife.ca.gov>
Sent: Wednesday, February 7, 2024 12:05 PM
To: Pien, Catarina L <cpien@usbr.gov>; Gaeta, Jereme@Wildlife <Jereme.Gaeta@Wildlife.ca.gov>; Bashevkin, Sam@Waterboards <Sam.Bashevkin@Waterboards.ca.gov>; Mahardja, Brian

<bmahardja@usbr.gov>; Hartman, Rosemary@DWR <Rosemary.Hartman@water.ca.gov>; Bosworth, David@DWR <David.Bosworth@water.ca.gov>
Subject: Perhaps useful functions?

Hi all,

Just a PSA on two functions that I've finished developing in case any of you find them useful.

1. scrapeForm: a generic function that allows you to scrape from any SacPas pages that have a form query. It works on all the ones that I've tried, although keep in mind that it works best with static pages (can work for those with some dynamic elements but with more work)
    a. https://github.com/trinhxuann/deltadata/blob/main/R/formScrape.R
2. pullWyt: scrapes the three wyt tables from DWR's WSIHIST webpage
    a. https://github.com/trinhxuann/deltadata/blob/main/R/pullWyt.R

Feel free to install the package to use them or simply copy and paste the function into a local script.

Best,
Trinh