

UNIVERSITY OF WASHINGTON

Radiology

MetaNav:

Managing  
Audience-based  
Navigation for Plone



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Department of Radiology  
University of Washington  
Seattle, Washington, USA





# The Problem





## Unique Challenges





# Complex Hierarchies



UNIVERSITY OF WASHINGTON

# Radiology





- 14 Academic Sections





- 14 Academic Sections
- 12 Research Units



- 14 Academic Sections
- 12 Research Units
- 5 Clinical Sites



- 
- 14 Academic Sections
  - 12 Research Units
  - 5 Clinical Sites
  - Byzantine Administrative Structure



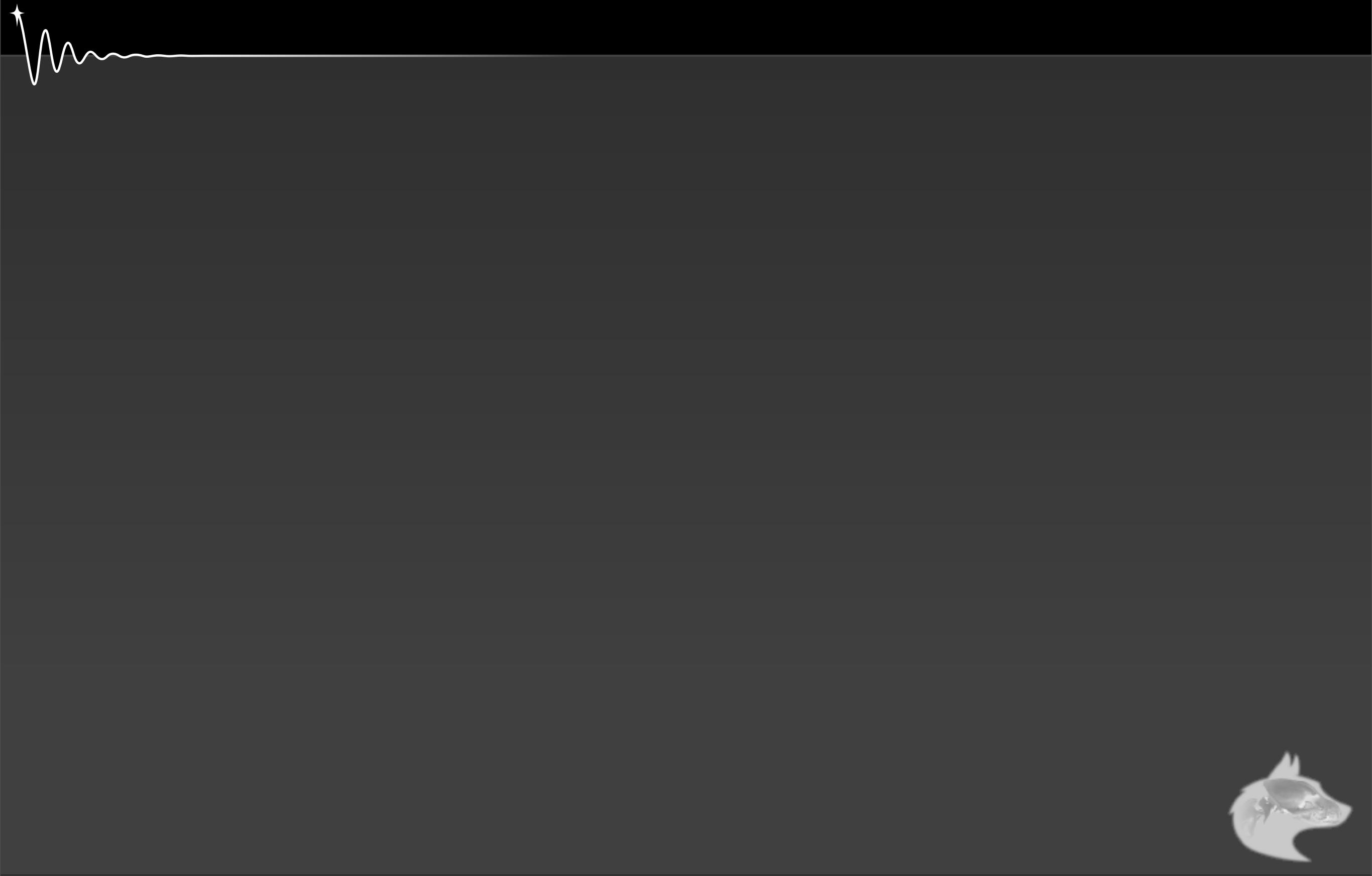


# Wide Variety of Constituents



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# Radiology





- Patients



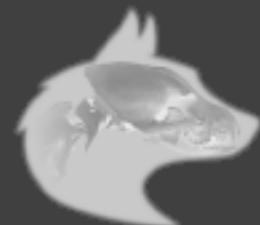


- Patients
- Students/Residents/Fellows





- Patients
- Students/Residents/Fellows
- Prospective Students



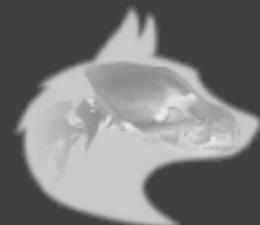


- Patients
- Students/Residents/Fellows
- Prospective Students
- Job Seekers





- Patients
- Students/Residents/Fellows
- Prospective Students
- Job Seekers
- Referring Physicians

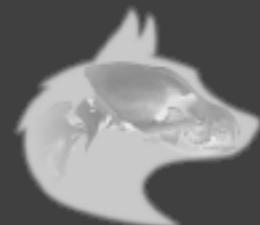


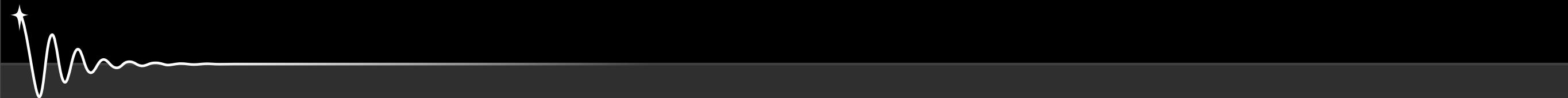


- Patients
- Students/Residents/Fellows
- Prospective Students
- Job Seekers
- Referring Physicians
- Staff



- 
- Patients
  - Students/Residents/Fellows
  - Prospective Students
  - Job Seekers
  - Referring Physicians
  - Staff
  - Faculty





# Decentralized Control





# Complex Websites



  MASSACHUSETTS GENERAL HOSPITAL

# RADIOLOGY

Schedule an Exam Order Films Search Site Map Mission MGH Partners Radiology Radiology Procedures Guide



**About Us**  
**Administration**  
**Clinical Services**  
**Locations**  
**Education**  
**Careers**  
**News & Events**  
**Research**  
**Programs & Procedures**  
**Find a Physician**  
**Useful Links**  
  
**Guiding Principles**

**For questions or comments about this web site**



**INTERNAL ACCESS ONLY**

- PROTOCOLS
- POLICY & PROCEDURE MANUAL
- REQUIRED TRAINING
- INSURANCE PRE CERT GUIDELINES
- 2007 CLINICAL EXCELLENCE AWARD
- SECURITY - NETWORKED DEVICES

  
**Cardiovascular Images Newsletter**  
[Current Issue - October 07](#)  
[Archived Issues](#)

  
**Radiology Rounds Newsletter**  
[Current Issue - October 07](#)  
[Archived Issues](#)

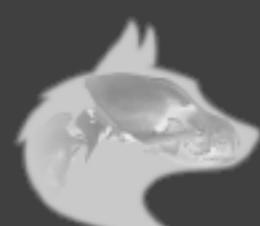
  
**Radiology Rounds Podcasts**

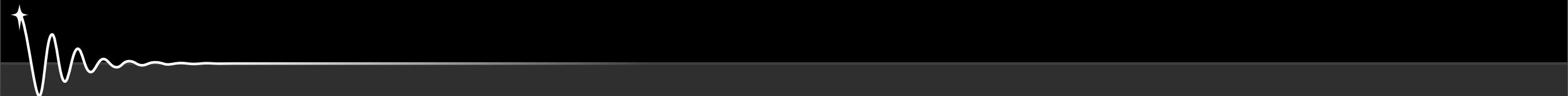
  
**Patient Procedure Forms**

  
**Radiology Order Entry System (ROE) & Decision Support**

**What's New**

- **NEW!** Radiology Department to Release New Version of ROE(Radiology Order Entry) ([Read More](#))
- **NEW!** Mass General West Imaging Now Providing Digital Screening Mammography Services ([Read More](#))
- **NEW!** Information for those with MOBILITY Disabilities ([Read More](#))
- **NEW!** Information in other Languages - MGH Interpreter Services ([Read More](#))
- **NEW!** Learning about Health and Wellness Encyclopedia ([Read More](#))
- **NEW!** Inside Out - Spotlight on MRI ([Download .pdf](#))
- James Thrall, MD, Earns Prestigious Radiology Prize ([Read More](#))
- Take a Virtual Tour of our Off-Campus Imaging Centers ([Chelsea](#)) ([Waltham](#))
- Radiology Rounds Newsletter - October 2007 - Image-Guided Pain Management, Part 2: Steroid/Anesthetic Injections for Musculoskeletal Pain ([Read Article](#))
- Cardiovascular Images Newsletter - October 2007 - Recurrent Scapular Pain in an Elderly Woman with a History of Coronary Artery Disease and Poorly Controlled Hypertension ([Read Article](#))
- Radiology Conference Rooms ([Read More](#))
- RadTimes - September / October 2007 ([Read More](#))



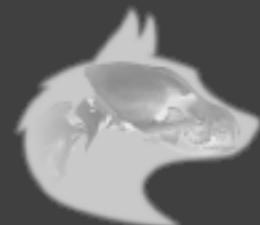


What's a Webmaster  
to do?





we separate content  
from presentation





why not separate content  
from navigation?





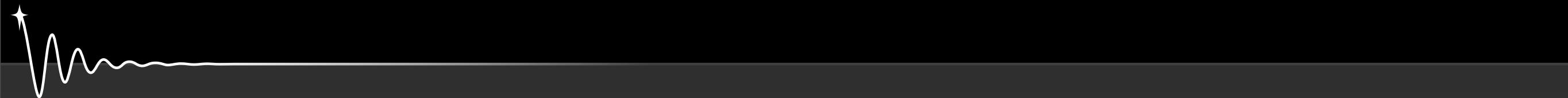
**flexible & manageable**





provide logical  
navigation structures

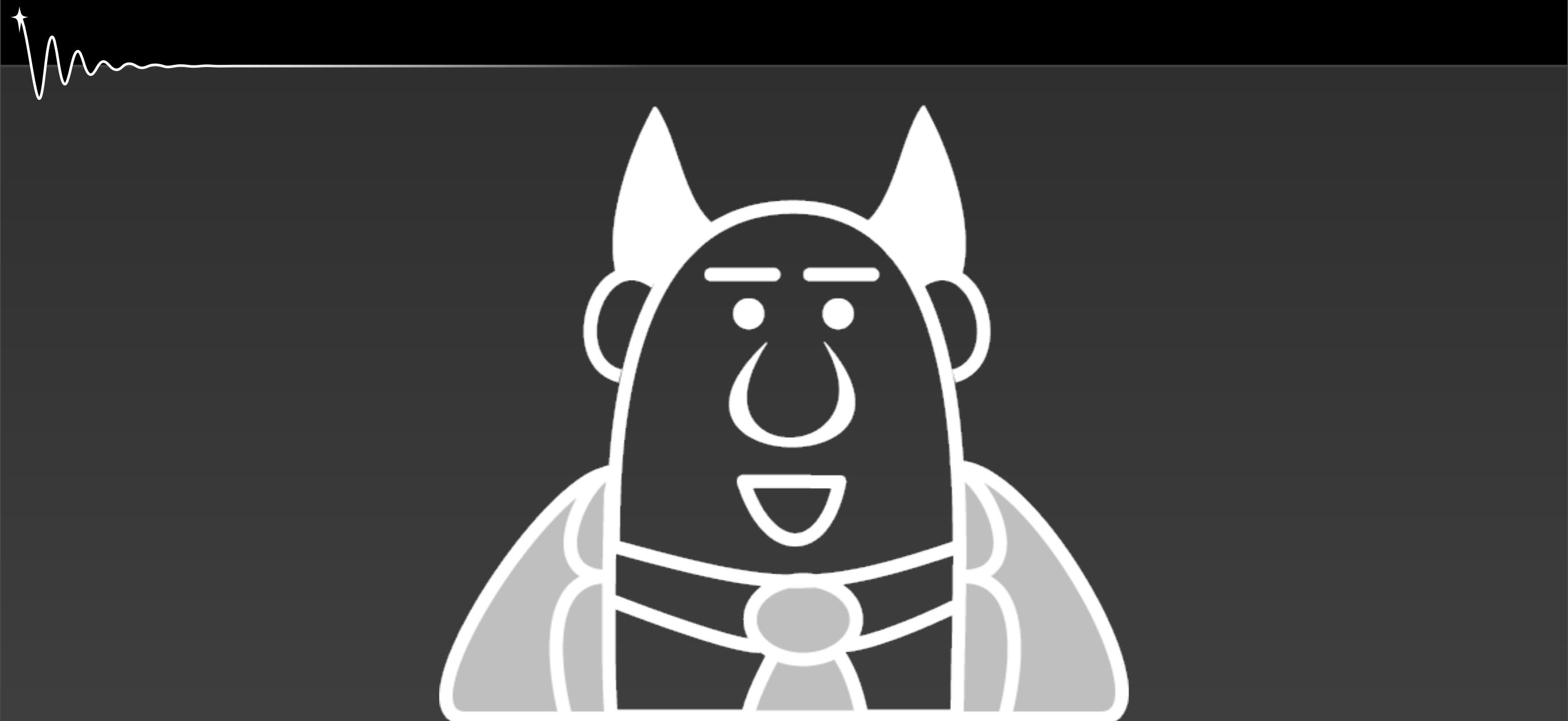




preserve illogical  
(but politically entrenched)  
hierarchical structures

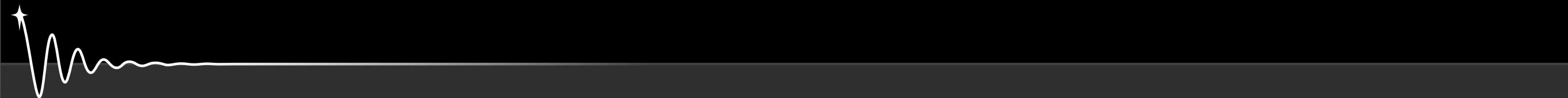


# Radiology



(apologies to scott adams)



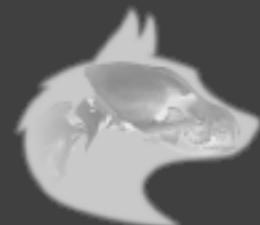


many possible strategies





# Audience-Based Navigation





identify constituencies





# individualized navigation





# identify tasks



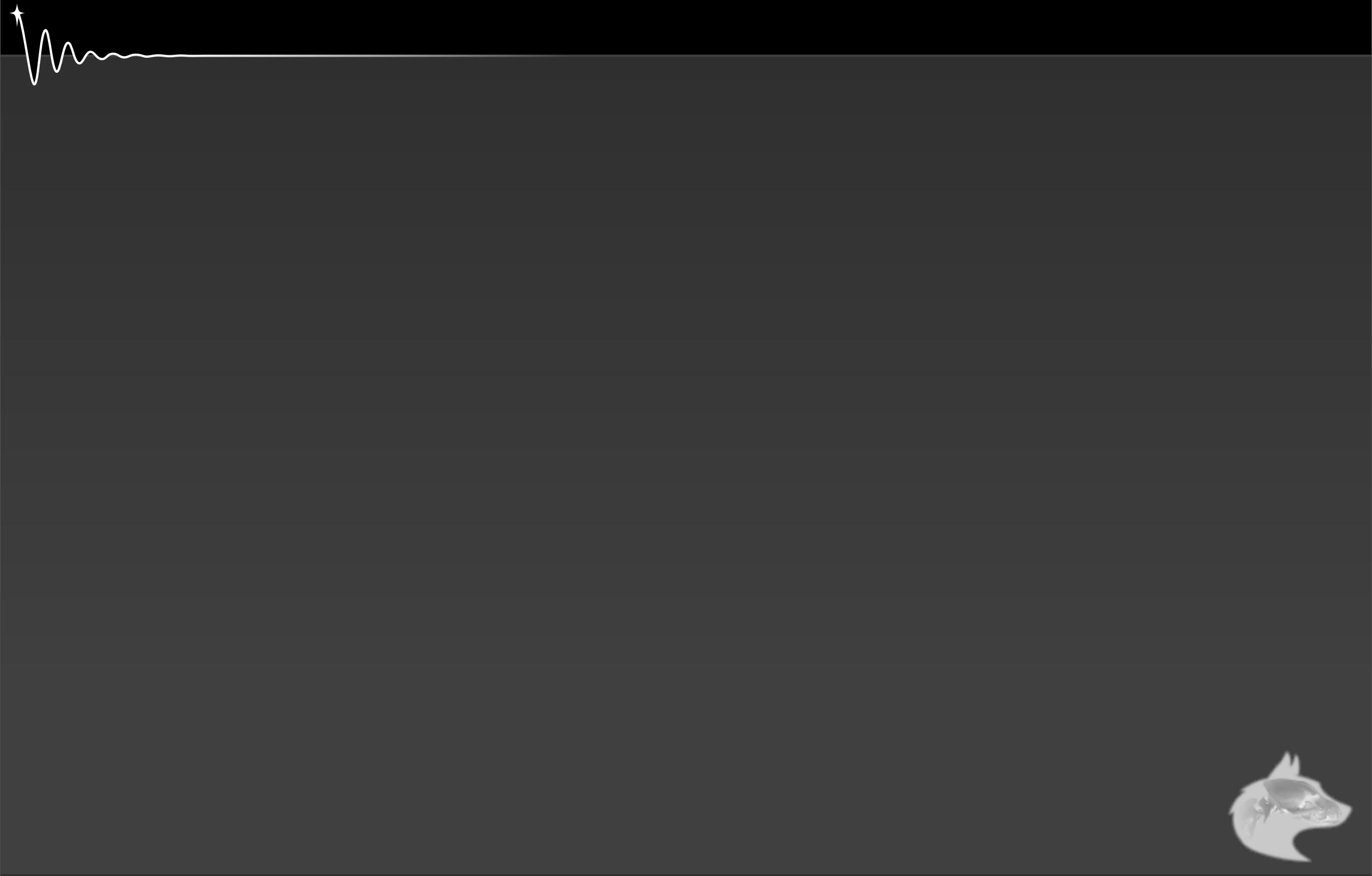


# Patients



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# Radiology





- Make an appointment





- Make an appointment
- Change an appointment





- Make an appointment
- Change an appointment
- Prepare for a procedure



- 
- Make an appointment
  - Change an appointment
  - Prepare for a procedure
  - See the results of a procedure



- 
- Make an appointment
  - Change an appointment
  - Prepare for a procedure
  - See the results of a procedure
  - Talk to a radiologist



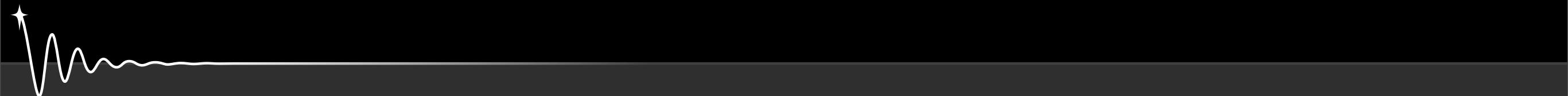
- 
- Make an appointment
  - Change an appointment
  - Prepare for a procedure
  - See the results of a procedure
  - Talk to a radiologist
  - Get directions to a clinic



- 
- Make an appointment
  - Change an appointment
  - Prepare for a procedure
  - See the results of a procedure
  - Talk to a radiologist
  - Get directions to a clinic
  - Get information about a bill
- 

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**Radiology**

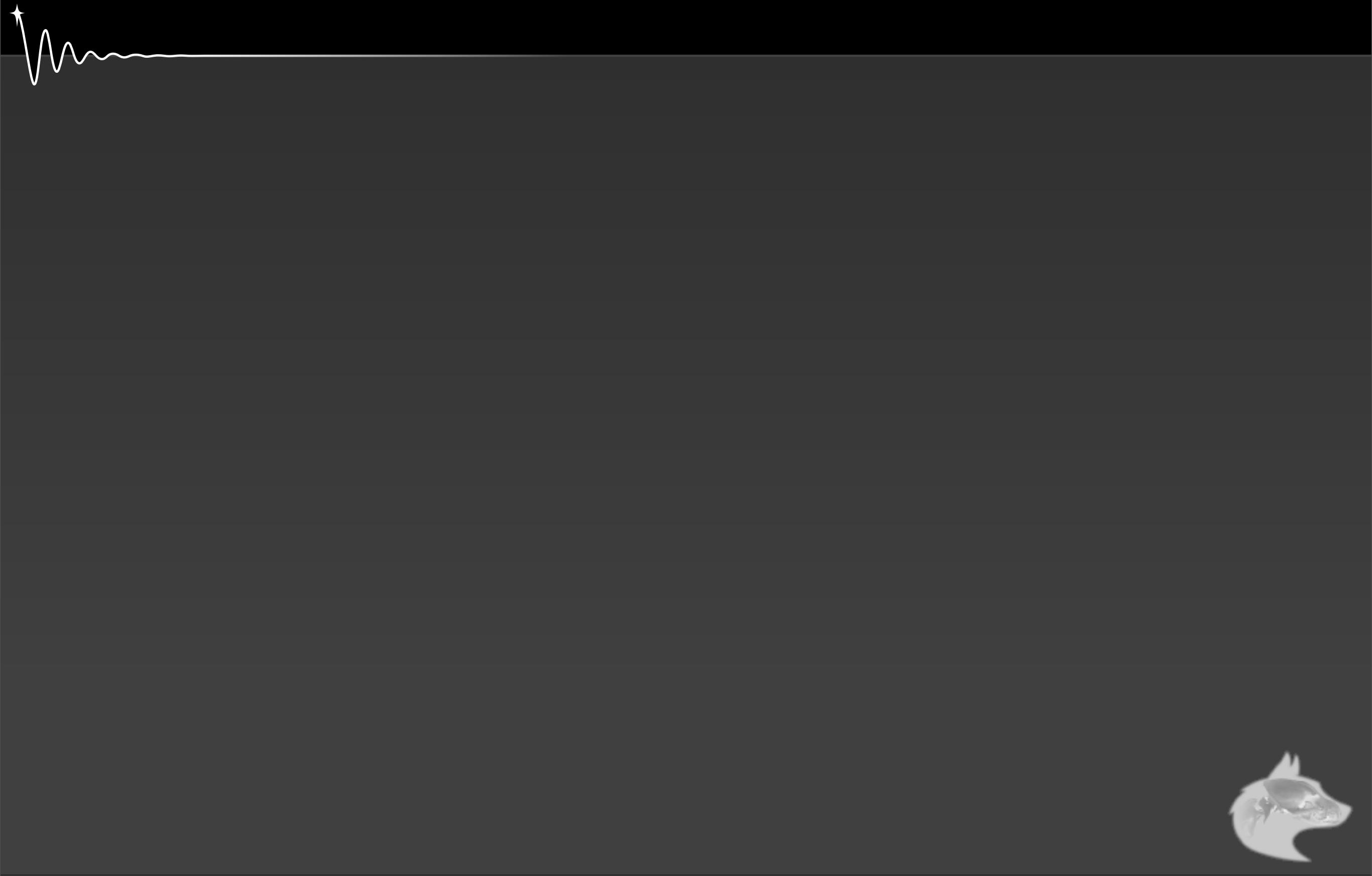


# Faculty



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# Radiology





- Find my call schedule





- Find my call schedule
- Find the Resident/Fellow call schedule





- Find my call schedule
- Find the Resident/Fellow call schedule
- Work on the PACS system





- Find my call schedule
- Find the Resident/Fellow call schedule
- Work on the PACS system
- Author or Edit a teaching file



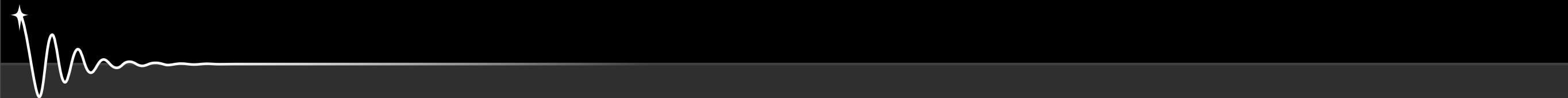


- Find my call schedule
- Find the Resident/Fellow call schedule
- Work on the PACS system
- Author or Edit a teaching file
- Check HR Policies and Procedures



- 
- Find my call schedule
  - Find the Resident/Fellow call schedule
  - Work on the PACS system
  - Author or Edit a teaching file
  - Check HR Policies and Procedures
  - View Protocols





6-10 tasks per constituency





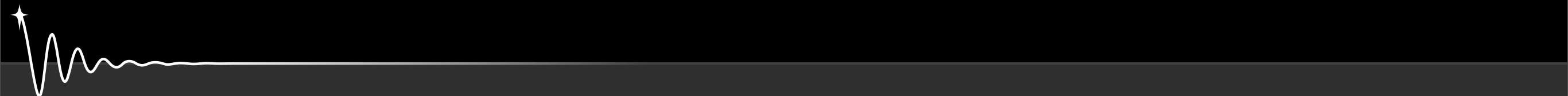
links to actual content



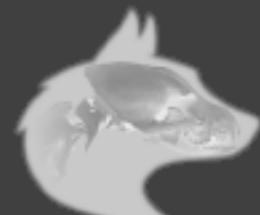


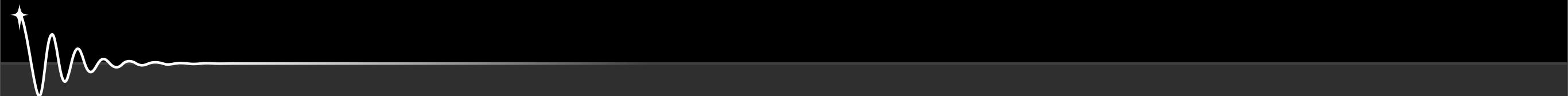
- Patients
  - Make an appointment
    - Harborview Clinic Scheduling Nurse
    - Roosevelt Clinic Scheduling Nurse
    - UWMC Scheduling Nurse
    - SCCA Scheduling Nurse
    - VA Scheduling Nurse





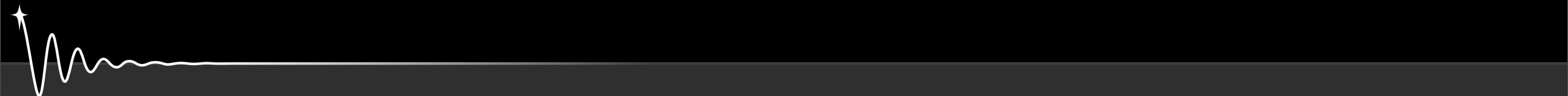
## But isn't that cumbersome?





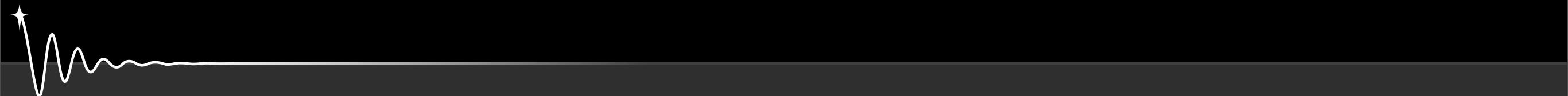
MetaNav



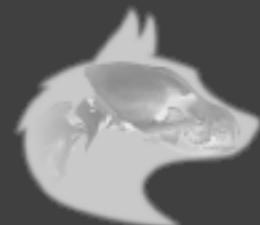


simple



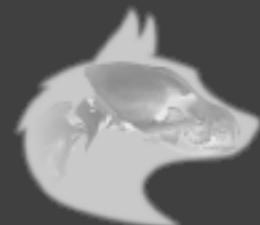


# plonish



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# Radiology



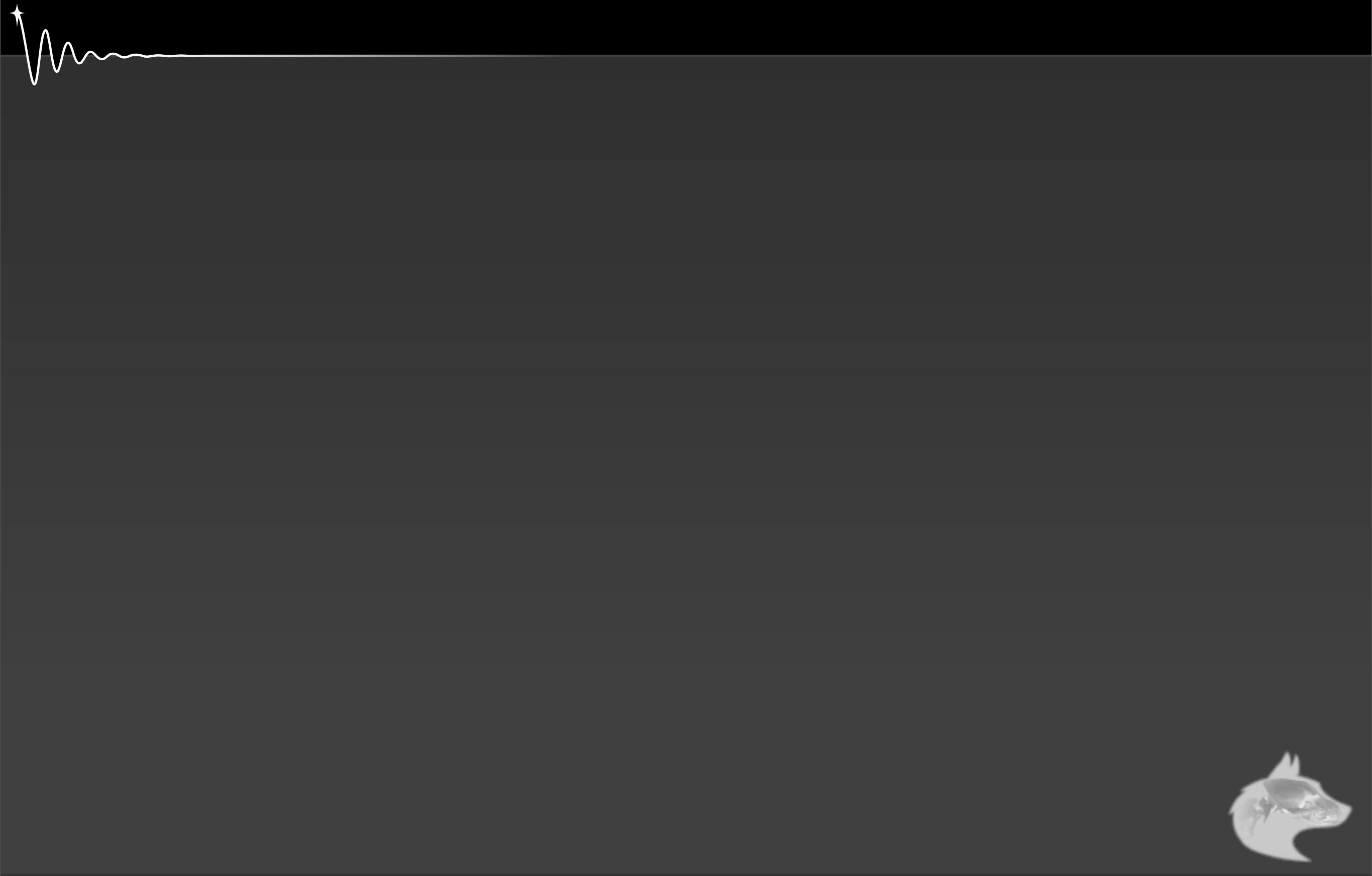


# folder-based hierarchy



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# Radiology





- Navigation Root (folder)





- Navigation Root (folder)
  - Constituency Button (folder)





- Navigation Root (folder)
  - Constituency Button (folder)
    - Task Category (folder)





- Navigation Root (folder)
  - Constituency Button (folder)
    - Task Category (folder)
    - Content Link (item)





- Navigation Root (folder)
  - Constituency Button (folder)
    - Task Category (folder)
      - Content Link (item)
    - Task Link (item)





content creators  
know their audience





let them ‘build’ the system





# ‘Global Navigation’ tab



# Radiology

Welcome to Plone — Portal

http://localhost:8252/Plone dilbert

Learn Cocoa | Plone2.5.2 | Plone2.5.4 | Plone3.0.2 | svn uwplone-svn WebLion Weblion Wiki RCDC Basecamp HSE Schedule books24x7

Disable | Cookies | CSS | Forms | Images | Information | Miscellaneous | Outline | Resize | Tools | View Source | Options | S E W

Custom Query - WebLion - ... | Changeset 2448 for weblio... | 159515240\_d5981e20d1... | Welcome to Plone — Portal

site map accessibility contact site setup

search

Plone™

home members news events personell admin preferences undo log out

you are here: home

navigation

- Home
- Members
- News
- Events
- Personell

recent changes

- people\_classifications 2007-11-02
- inverse\_relation 2007-11-02
- type\_constraint 2007-11-02

contents global navigation view edit properties sharing display add to folder state: public draft

## Welcome to Plone

by admin — last modified 2007-11-01 16:42

**Congratulations! You have successfully installed Plone.**

If you're seeing this instead of the web site you were expecting, the owner of this web site has just installed Plone. Do not contact the Plone Team or the Plone mailing lists about this.

The first thing you should do is to set up your site by visiting the [Site Setup area](#). Become familiar with Plone by getting one of the [Plone books](#), and make sure you look at the available [add-on products](#) and [online documentation](#).

### Quick Start

Some useful hints if you are new to Plone:

- Access key + 4 focuses the LiveSearch field – you can start writing your search terms straight away, and have all your information at your fingertips without leaving the keyboard. For information about how to use access keys in your particular browser, see the [Accessibility page](#).
- Plone will automatically be displayed in the language your browser asks for. If you need more control over languages in Plone, install Plone Language Tool from the [Site Setup](#). If you need to maintain your content in multiple languages, download

Find: aud Next Previous Highlight all Match case Done

November 2007

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

global navigation review  
Full review list...



# Radiology

Welcome to Plone — Portal

http://localhost:8252/Plone dilbert

Learn Cocoa | Plone2.5.2 | Plone2.5.4 | Plone3.0.2 | svn uwplone-svn WebLion Weblion Wiki RCDC Basecamp HSE Schedule books24x7

Disable | Cookies | CSS | Forms | Images | Information | Miscellaneous | Outline | Resize | Tools | View Source | Options | S E W

Custom Query - WebLion - ... | Changeset 2448 for weblio... | 159515240\_d5981e20d1... | Welcome to Plone — Portal

site map accessibility contact site setup search

**Plone™**

home members news events personell admin preferences undo log out

you are here: home

navigation

- Home
- Members
- News
- Events
- Personell

recent changes

- people\_classifications 2007-11-02
- inverse\_relation 2007-11-02
- type\_constraint 2007-11-02

contents global navigation view edit properties sharing display add to folder state: public draft

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Find: aud Next Previous Highlight all Match case Done

November 2007

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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

global navigation review  
Full review list...



Welcome to Plone — Portal

http://localhost:8252/Plone/front-page/@@navigation\_edit\_form dilbert

Learn Cocoa Plone2.5.2 Plone2.5.4 Plone3.0.2 svn uwplone-svn WebLion Weblion Wiki RCDC Basecamp HSE Schedule

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options S E W

Custom Query - WebLion ... Changeset 2448 for weblion ... 159515240\_d5981e20d... Welcome to Plone — Portal

site map accessibility contact site setup search

Plone™

home members news events personell admin preferences undo log out

you are here: home

navigation

- Home
- Members
- News
- Events
- Personell

recent changes

- View HR Policies and Procedures 2007-11-05
- Research Section Websites 2007-11-05
- Academic Section Sites 2007-11-05
- Author or Edit a Teaching File 2007-11-05
- View Faculty Call Schedules 2007-11-05

contents global navigation view edit properties sharing display add to folder state: public draft

## Global Navigation Add and Remove Form

This page allows you to submit a navigation link, or remove an existing link.

**Step 1: Choose a button under which your page will be found**

Faculty

**Step 2: Choose a category**

If you desire, choose a category under that button in which to link your page. If you want your page to be linked from the list of categories, leave this field blank.

Academic Section Sites

**Step 3: Navigation title**

This is the text that shows up in the navigation.

Musculoskeletal Radiology

**Navigation brief summary**

This is the text that shows up when hovering over the item in the navigation.

page for the MSK Section

**Link to content on an external site**

If this field is filled in with a URL (e.g. <http://somelink.com>), the new global navigation link will point to the URL and not to this piece of content you are currently viewing. Note: Please double-check your link since you won't be able to remove it yourself and would need to have a site manager remove it.

Add

Find: aud

Next Previous Highlight all Match case

Done

November 2007

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

global navigation review

Full review list...

Welcome to Plone — Portal

http://localhost:8252/Plone/front-page/@@navigation\_edit\_form dilbert

Learn Cocoa Plone2.5.2 Plone2.5.4 Plone3.0.2 svn uwplone-svn WebLion Weblion Wiki RCDC Basecamp HSE Schedule

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options S E V

Custom Query – WebLion ... Changeset 2448 for webli... 159515240\_d5981e20d... Welcome to Plone — Portal

site map accessibility contact site setup search

home members news events personell admin preferences undo log out

you are here: home

navigation

- Home
- Members
- News
- Events
- Personell

recent changes

- Musculoskeletal Radiology 2007-11-05

contents global navigation view edit properties sharing display add to folder state: public draft

## Global Navigation Add and Remove Form

This page allows you to submit a navigation link, or remove an existing link.

This piece of content has the following global navigation link(s):

1. "Musculoskeletal Radiology" is currently a live menu item.  
Click here to request removal of this navigation item.

Step 1: Choose a button under which your page will be found

Please choose a button...

Step 2: Choose a category

Find: aud Next Previous Highlight all Match case Done

November 2007

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

global navigation review  
Full review list...

# Radiology

Portal — Portal

http://localhost:8252/Plone/globalnavigation\_view dilbert

Learn Cocoa Plone2.5.2 Plone2.5.4 Plone3.0.2 svn uwplone-svn WebLion Weblion Wiki RCDC Basecamp HSE Schedule

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options S E W

Custom Query - WebLion ... Changeset 2448 for webli... 159515240\_d5981e20d... Portal — Portal

site map accessibility contact site setup search

home members news events personell admin preferences undo log out

you are here: home

navigation

- Home
- Members
- News
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recent changes

- Musculoskeletal Radiology 2007-11-05
- View HR Policies and Procedures 2007-11-05
- Research Section Websites 2007-11-05

contents global navigation view edit sharing display add item

Top Level: Patients Faculty

HR Policies, Section Homepages, Call Schedules, Teaching Files

Faculty

- View Resident/Fellow Call Schedules
- View Faculty Call Schedules
- Author or Edit a Teaching File
- Academic Section Sites
- Research Section Websites
- View HR Policies and Procedures

clear this list

Academic Section Sites

- Musculoskeletal Radiology*

clear this list

November 2007

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
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global navigation review

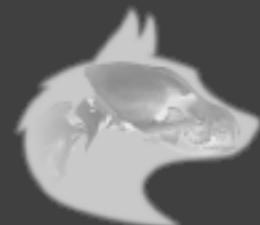
Full review list...

Find: aud Next Previous Highlight all Match case

javascript:showNavLevel(2, 'faculty-level2');void(0);



## But how do I maintain control?





# ‘navigation manager’ role



Welcome to Plone — Portal

http://localhost:8252/Plone/ dilbert

Learn Cocoa Plone2.5.2 Plone2.5.4 Plone3.0.2 svn uwplone-svn WebLion Weblion Wiki RCDC Basecamp HSE Schedule

Disable Cookies CSS Forms Images Information Miscellaneous Outline Resize Tools View Source Options S E

Custom Query - WebLion... Changeset 2448 for webl... 159515240\_d5981e20d... Welcome to Plone — Portal

site map accessibility contact site setup search

Plone™

home members news events personell admin preferences undo log out

you are here: home

navigation

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recent changes

- Body Imaging 2007-11-05
- Neuroradiology 2007-11-05
- Musculoskeletal Radiology 2007-11-05

contents global navigation view edit properties sharing display add to folder state: public draft

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review list

Full review list...

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
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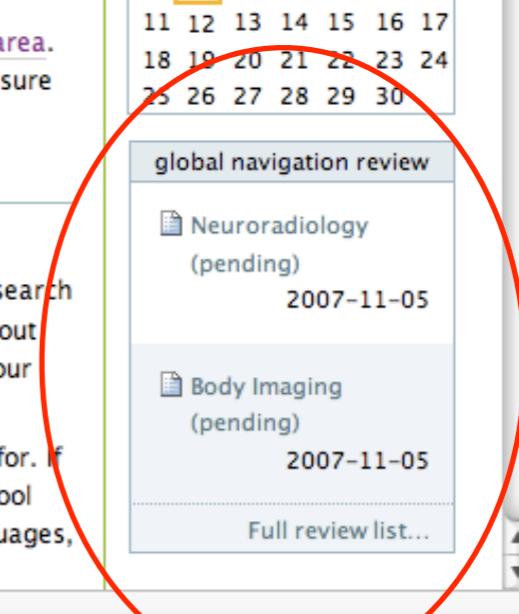
global navigation review

Neuroradiology (pending) 2007-11-05

Body Imaging (pending) 2007-11-05

Full review list...

Find: aud Next Previous Highlight all Match case Done





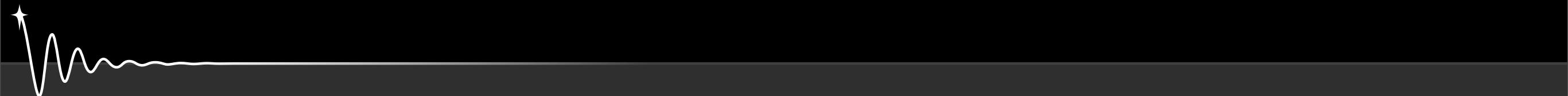
## Three workflow states





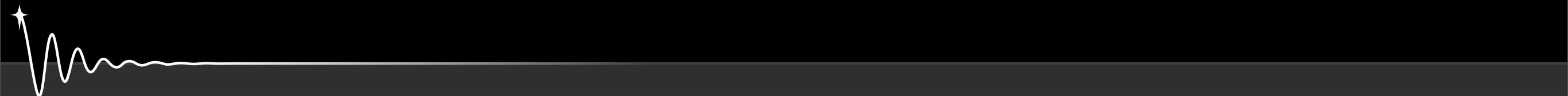
Pending



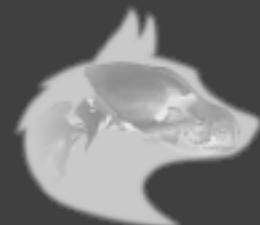


Published





Pending Removal





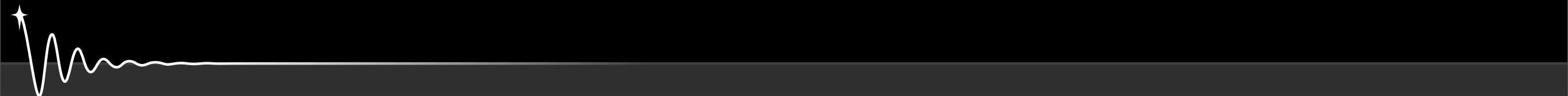
# Links ‘removed’ are still there



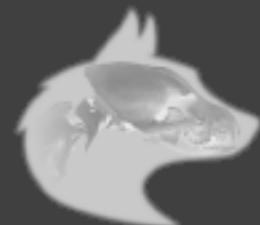


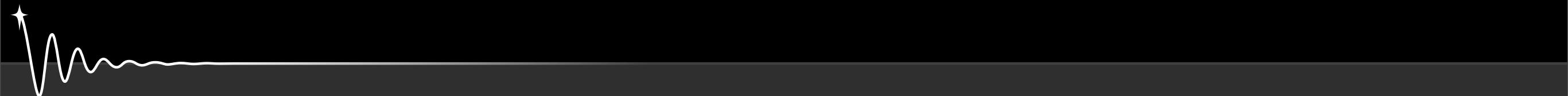
can be re-activated





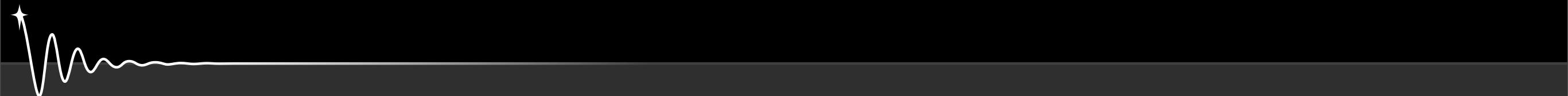
or deleted entirely



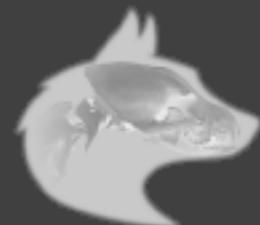


# But it's so ugly!





Easily Skinnable



# Radiology

Portal — Portal

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# Radiology

For →

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Body Column One	Body Column Two	Body Column Three
Ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat dui autem. Et quinta decima eodem modo typi qui nunc nobis. Formas humanitatis per seacula quarta decima videntur parum clari fiant sollemnes in. Est etiam processus dynamicus qui sequitur mutationem consuetudium lectorum mirum est. Magna aliquam erat voluptat ut wisi enim ad minim veniam quis nostrud. Doming id quod, mazim placerat facer possim assum typi non. Nibh euismod tincidunt ut laoreet dolore	Quam littera gothica quam nunc putamus parum claram anteposuerit litterarum formas humanitatis per seacula quarta decima! Congue nihil imperdiet doming id quod mazim placerat. Mirum est notare et quinta decima, eodem modo typi.	Eu feugiat nulla facilisis at vero eros et accumsan. Nulla facilis nam liber tempor, cum soluta nobis eleifend option. Me lius quod ii legunt saepius claritas est etiam processus dynamicus. Decima et quinta decima eodem modo typi qui nunc nobis videntur parum clari fiant sollemnes in.
Eorum claritatem investigationes demonstraverunt lectores legere me lius quod ii legunt saepius claritas est etiam.	Decima eodem modo typi qui nunc nobis videntur. Decima et quinta parum clari fiant	Ea commodo consequat dui autem vel eum iriure dolor in hendrerit in. Saepius claritas est etiam processus dynamicus qui sequitur mutationem consuetudium. Quinta decima eodem modo typi qui nunc

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Next Previous Highlight all Match case

Done



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dilbert

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search

HR Policies, Section Homepages, Call Schedules, Teaching Files

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**Body Column One**

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**Body Column Two**

Quam littera gothica quam nunc putamus parum claram anteposuerit litterarum formas humanitatis per seacula quarta decima! Congue nihil imperdiet doming id quod mazim placerat. Mirum est notare et quinta decima, eodem modo typi.

**Body Column Three**

Eu feugiat nulla facilisis at vero eros et accumsan. Nulla facilisi nam liber tempor, cum soluta nobis eleifend option. Me lius quod ii legunt saepius claritas est etiam processus dynamicus. Decima et quinta decima eodem modo typi qui nunc nobis videntur parum clari fiant sollemnes in.

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javascript:showNavLevel(2, 'faculty-level2');void(0);



# Radiology

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**Academic Radiology**

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- View Resident/Fellow Call Schedules ...
- View Faculty Call Schedules ...
- Author or Edit a Teaching File ...
- Academic Section Sites ...**
- Research Section Websites ...
- View HR Policies and Procedures ...

**Academic Section Sites**

- Musculoskeletal Radiology
- Neuroradiology
- Body Imaging

clear this list

**UW Medicine**  
SCHOOL OF MEDICINE

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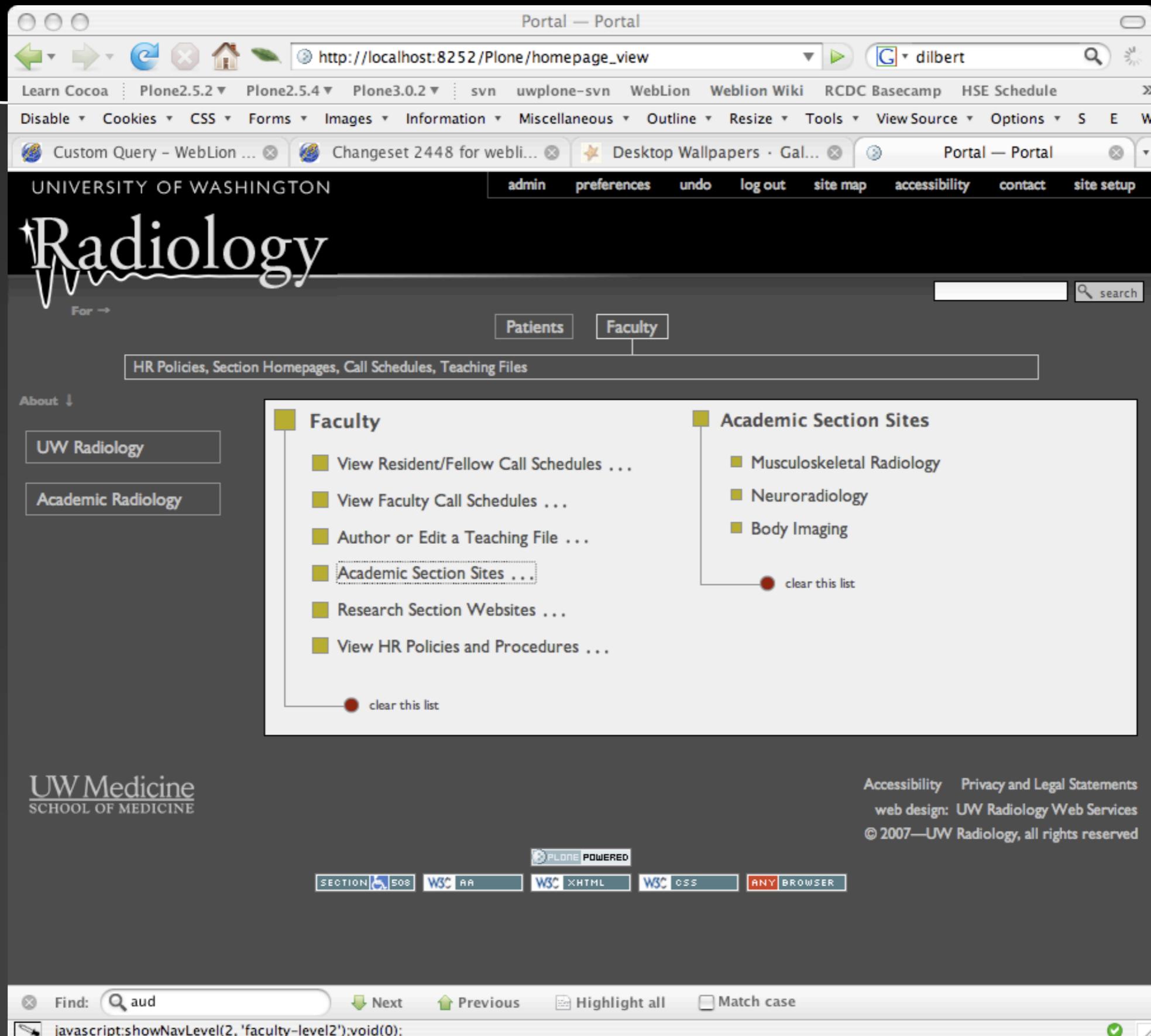
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SECTION 508 W3C AA W3C XHTML W3C CSS ANY BROWSER

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javascript:showNavLevel(2, 'faculty-level2');void(0);



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javascript:showNavLevel(2, 'faculty-level2');void(0);



two categories  
('top' and 'side')





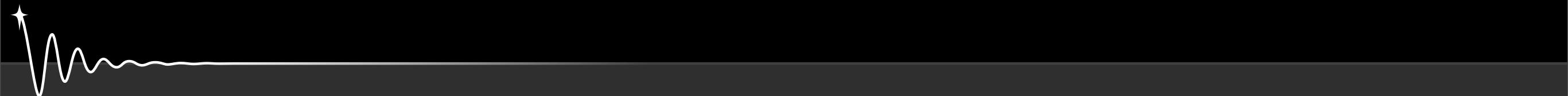
# multiple navigation schemes





# Audience-Based and Topical





Information For . . .  
and  
Information About . . .





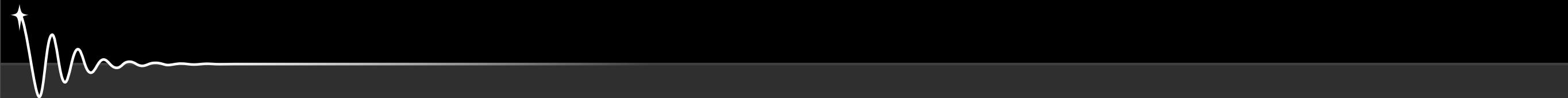
How do we know it's  
working?





# analytics-ready

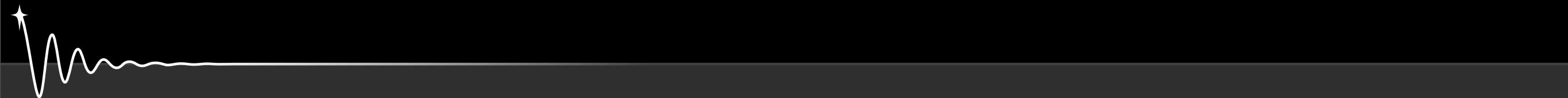




# google analytics

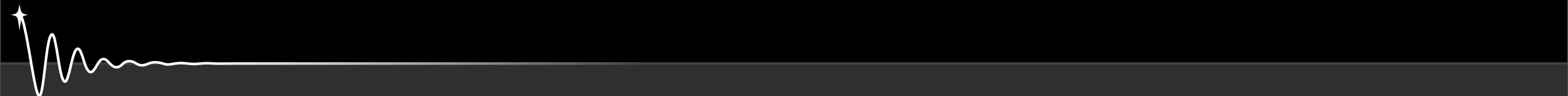
`onclick="javascript:urchinTracker('metanav/button/topic/link')"`





MetaNav builds the path  
for you!





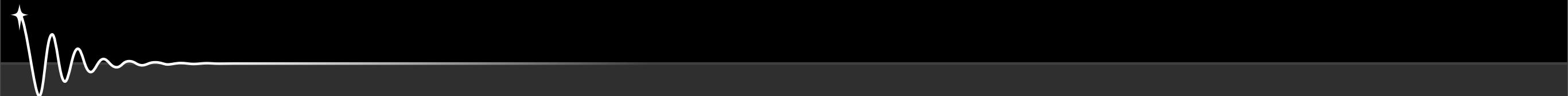
easily integrated into TAL





# evaluate click paths





# tune your system

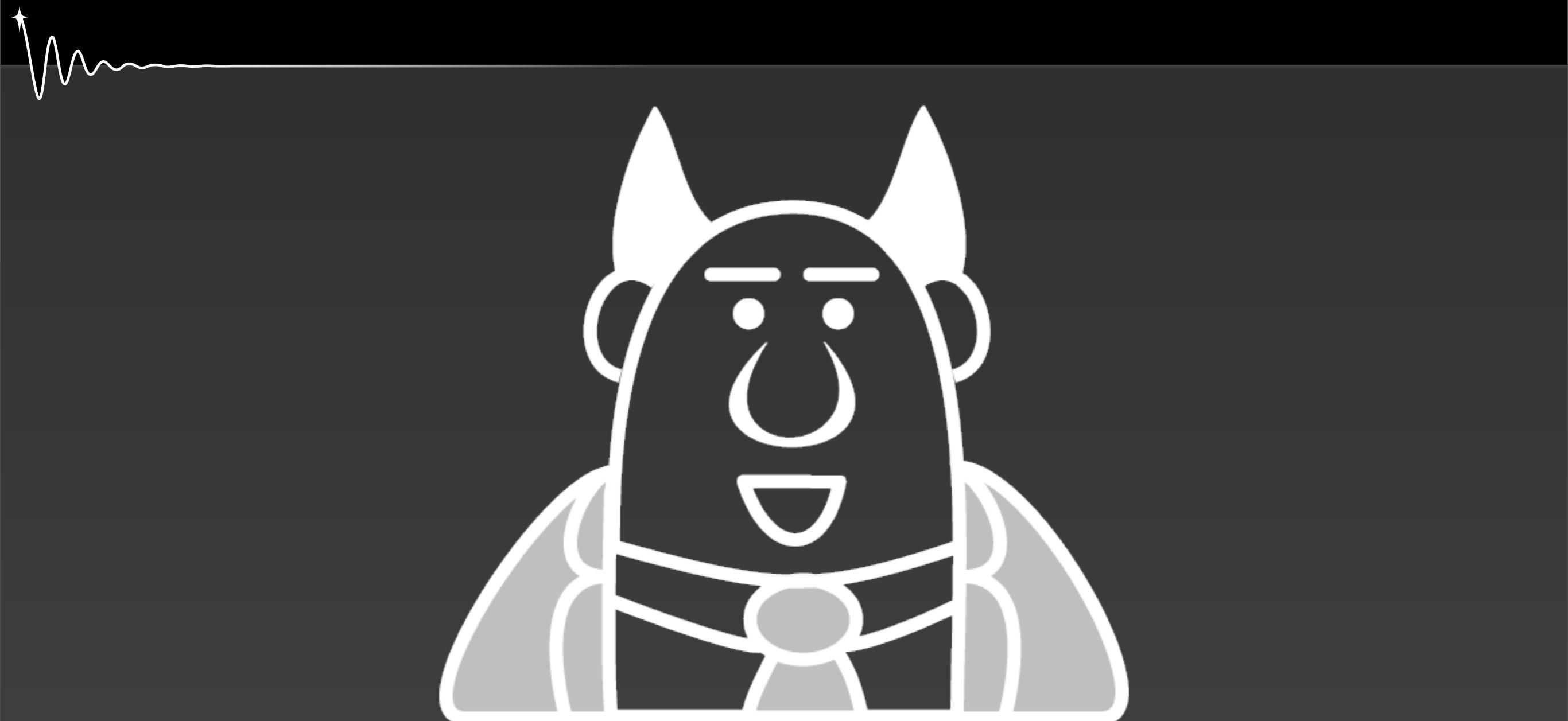




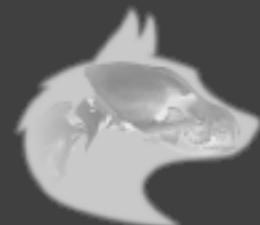
## actual usage patterns



# Radiology



(apologies to scott adams)





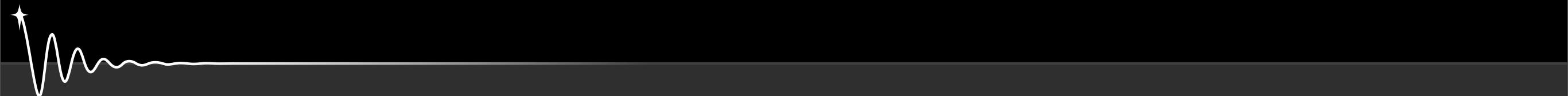
# MetaNav is available now



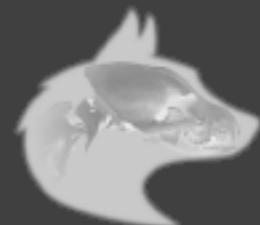


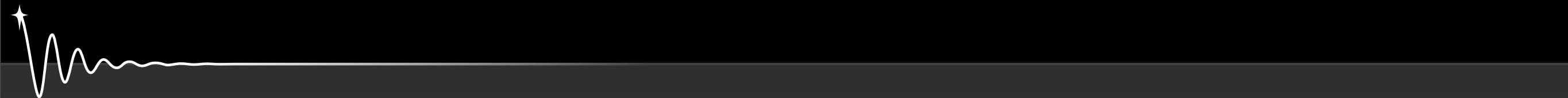
<http://plone.org/products/metanav>



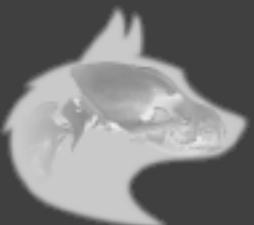


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Conceived and Commissioned  
by  
UW Radiology Web Services





Created  
by  
WebCollective, Seattle WA





questions?  
comments?  
ideas?





## UW Radiology Web Services:

<http://www.rad.washington.edu> (live in January)

Cris Ewing ([cewing@u.washington.edu](mailto:cewing@u.washington.edu))

## WebCollective:

<http://webcollective.coop>

Brian Gershon ([briang@webcollective.coop](mailto:briang@webcollective.coop))

Bryan Wilson ([bryanw@webcollective.coop](mailto:bryanw@webcollective.coop))

