

Contextual Menus

Tasks on Objects

Current Ways to Show Tasks on Objects

- Task Pane
- Ribbon
- Context Menus

But Task Pane and Ribbon do NOT work effectively on large displays as tasks are separated away from the objects they belong to.

Design Heuristics for tasks

- **P1 Speed** – How quickly can the user find and perform the task
- **P1 Discoverability** – Can the user find the tasks
- **P1 Associability** – Can the user associate the tasks with object/ view
- **P2 Distance** – How far away are the tasks from the objects?
- **P2 Scale** – How does the solution handle scale (#'s of tasks both great and small)
- **P2 Users** – Does the solution support novice to expert users
- **P2 Target Size** – How easy is it to target the task
- **P2 Real estate** – How much space does the solution take?
- **P2 Grouping** – how well does the solution handle grouping of tasks
- **P2 Minimize/ Collapse** – Can the user quickly dismiss or minimize or collapse the UI

New Considerations (Large Displays + Canvas)



Associability
Distance
Discoverability



Real Estate

A Contextual Menu

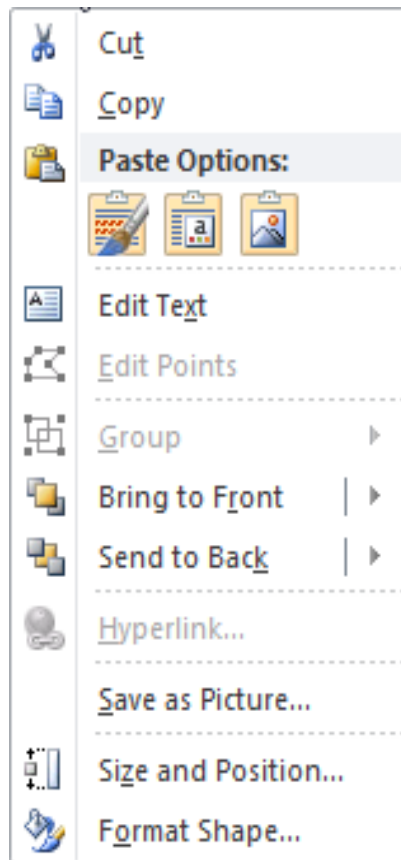
Traditional Definition

A **context menu** (also called **contextual**, **shortcut**, and **popup** or **pop-up menu**) is a menu in a graphical user interface (GUI) that appears upon user interaction, such as a right mouse click. A context menu offers a limited set of choices that are available in the current state, or context, of the operating system or application.

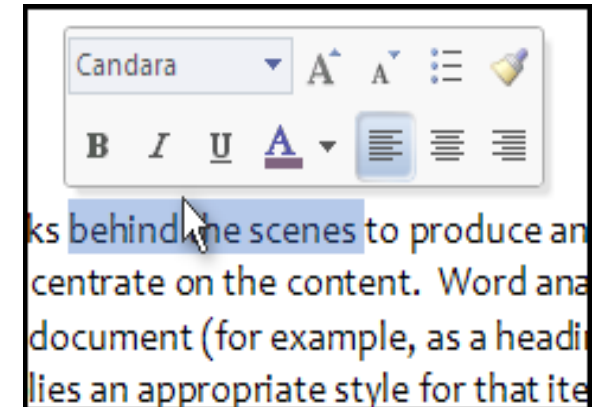
BUT we can EXPERIMENT with

- Content
 - Needs not just be choices (Rich Content which enables Preview)
- Mode of Interaction
 - Needs not be right Click (Can be touch or Gestures)
 - Needs not be a popup
- Look and Feel
 - Needs not be a Rectangular Popup

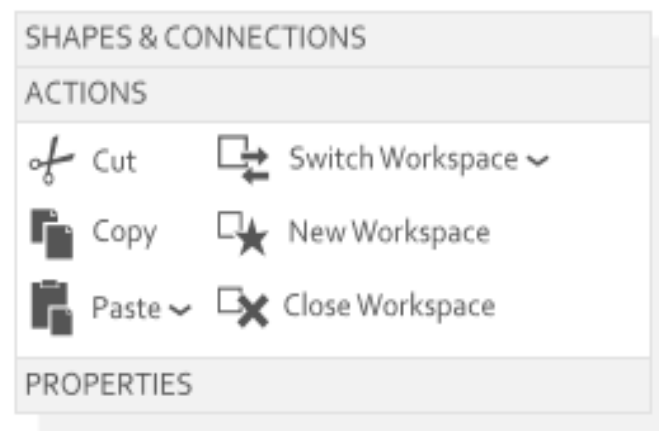
Recent Examples



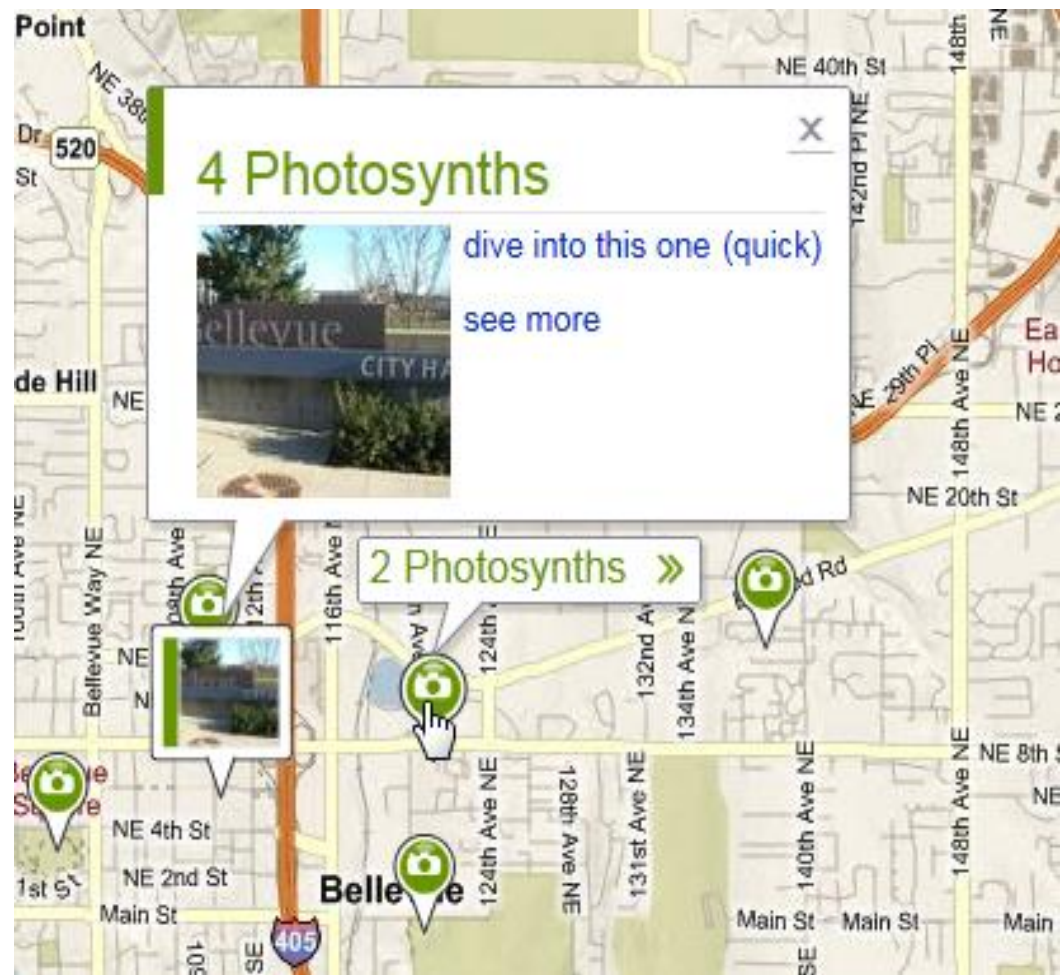
Office Right Click(Rich options, enables preview)



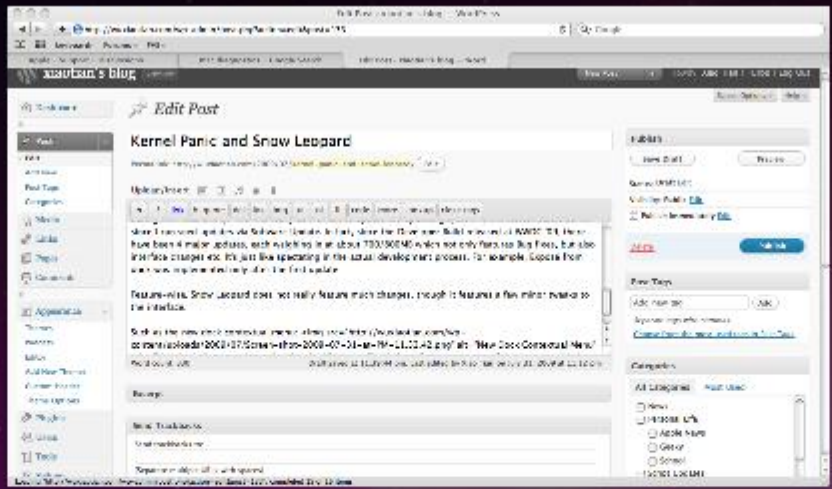
Office Mini Bar (appears in hover over and scroll)



Quadrant Mini Bar (appears on left click)



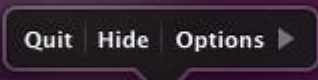
Bing Maps (hot spots + Click)



Edit Post < xiaotian's blog — WordPress

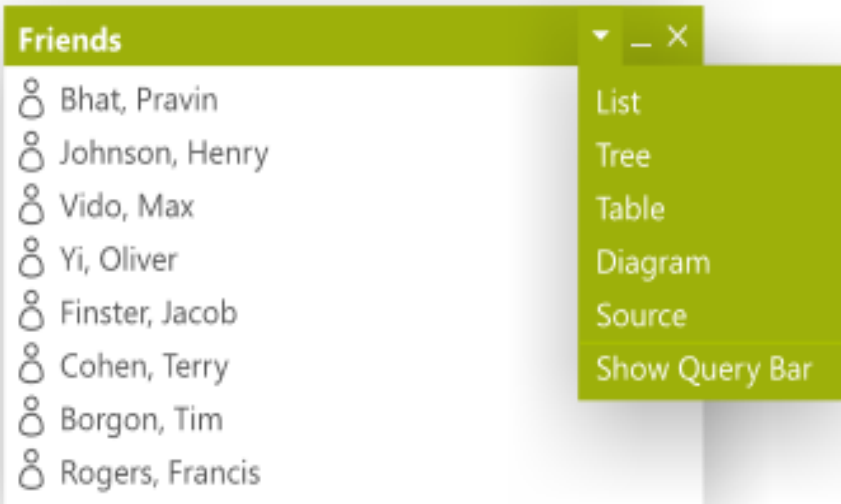


xiaotian's blog » Blog Archive » Kernel Panic and Snow Leopard



Click and Hold - Expose

Tasks on Window



Example from Quadrant

About this deck

In this deck we are showing design explorations only for contextual menus. There can be other ways to present tasks, like ribbon and a persistent task pane, but we have not explored them in this deck.

Our requirements with these explorations was that any solution :

1. Should work well for small as well with large no of tasks.
2. Should be able to handle grouping of tasks.
3. Should have "modern" look and feel.
4. Should support touch and gestures along with mouse and keyboard.

Contextual Menu Designs

Exploration 1

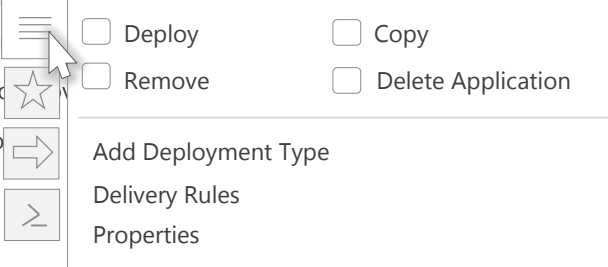
Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here.
Windows Defender	1	1	Microsoft	Test comment goes here.
HeadTrax	1	1	Woodgrove	Test comment goes here.
Adobe Photoshop	3	3	Adobe	Test comment goes here.

Action: Right Click (by Mouse), Long pressing (Touch)

Contextual Menu Designs

Exploration 1

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here
Windows Defender	1	1	Mic	
HeadTrax	1	1	Woo	
Adobe Photoshop	3	3	Ado	

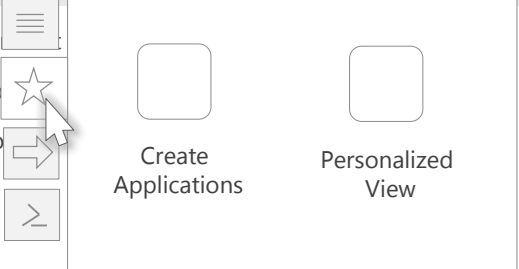


Action: Right Click (by Mouse), Long pressing (Touch)

Contextual Menu Designs

Exploration 1

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here
Windows Defender	1	1	Mic	
HeadTrax	1	1	Wo	
Adobe Photoshop	3	3	Ado	



Action:

Mouse Over "Views" Icon

Contextual Menu Designs

Exploration 1

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here
Windows Defender	1	1	Mic	
HeadTrax	1	1	Woc	
Adobe Photoshop	3	3	Ado	



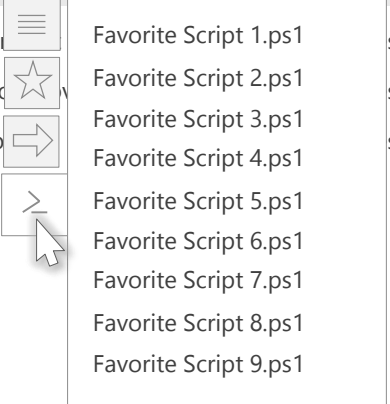
Action:

Mouse Over "Go to Related" Icon

Contextual Menu Designs

Exploration 1

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here.
Windows Defender	1	1	Microsoft	s here.
HeadTrax	1	1	Wood	s here.
Adobe Photoshop	3	3	Adobe	s here.

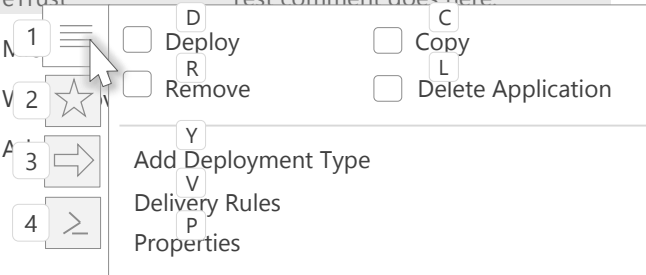


Action: Mouse Over "Script" Icon

Contextual Menu Designs

Exploration 1

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here
Windows Defender	1	1		
HeadTrax	1	1		
Adobe Photoshop	3	3		

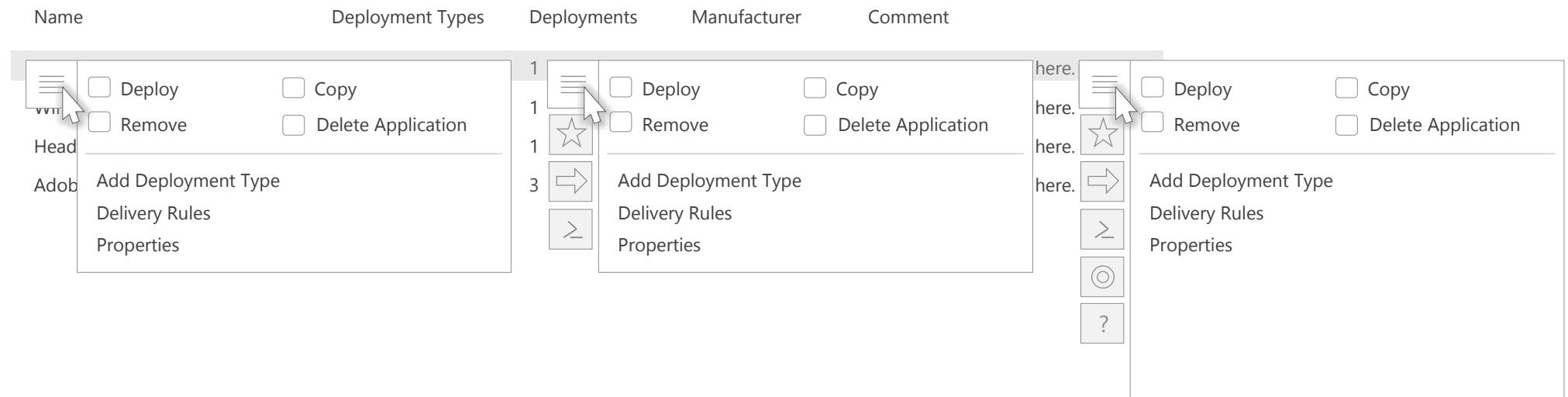


Action: **SHIFT + F10 (Keyboard)**

When keyboard shortcut (SHIFT+F10 or Right Click Menu key) is used to get to the Contextual Menu, user will see the keyboard shortcuts by default. He will be able to navigate throughout contextual menu without leaving keyboard.

Contextual Menu Designs

Exploration 1



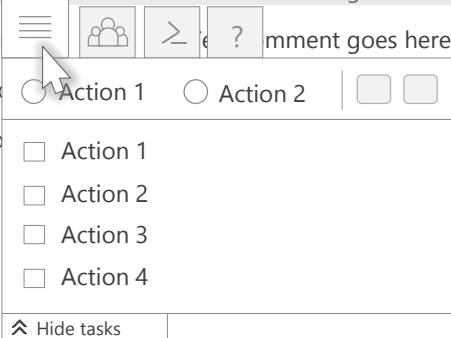
Action: Right Click (by Mouse), Long pressing (Touch), SHIFT + F10 (Keyboard)

In products like SCE there might not be many tasks to expose, while in some other management products there might be many more categories of tasks. We need to make sure any solution works for both these extremes. This solution is easily scalable from 1 to upto 7-8 categories of tasks.

Contextual Menu Designs

Variations – horizontal tabs

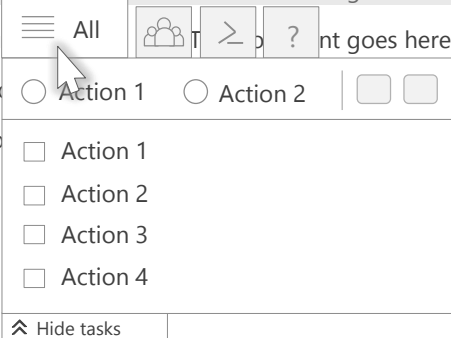
Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here.
Windows Defender	1	1	Mic	Comment goes here.
HeadTrax	1	1	Wo	
Adobe Photoshop	3	3	Ado	



Contextual Menu Designs

Variations – horizontal tabs

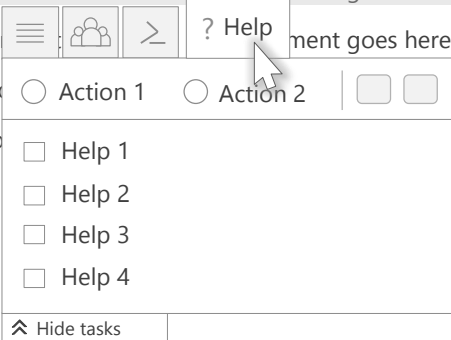
Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here.
Windows Defender	1	1	Mic	nt goes here.
HeadTrax	1	1	Wor	
Adobe Photoshop	3	3	Ado	



Contextual Menu Designs

Variations - horizontal tabs

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here.
Windows Defender	1	1	Mic	ment goes here.
HeadTrax	1	1	Wo	
Adobe Photoshop	3	3	Ado	



- **Pros**

- Can be used to show more tasks than a conventional right click menu
- Tasks can be categorized in multiple categories.
- Can be easily scaled beyond few categories
- Frequent Tasks can be accessed in one action (Right Click)

- **Cons**

- Additional mouse action required to discover tasks hidden in tabs.

Contextual Menu Designs

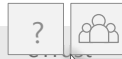
Exploration 2

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	eTrust	Test comment goes here.
Windows Defender	1	1	Microsoft	Test comment goes here.
HeadTrax	1	1	Woodgrove	Test comment goes here.
Adobe Photoshop	3	3	Adobe	Test comment goes here.

Action: Right Click (by Mouse), Long pressing (Touch), SHIFT + F10 (Keyboard)

Contextual Menu Designs





Exploration 2

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1		Test comment goes here.
Windows Defender	1	1		Test comment goes here.
HeadTrax	1	1	Woodgrove	Test comment goes here.
Adobe Photoshop	3	3	Adobe	Test comment goes here.

Action: Right Click (by Mouse), Long pressing (Touch), SHIFT + F10 (Keyboard)

Contextual Menu Designs

Exploration 2





Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	 	Test comment goes here.
Windows Defender	1	1	 	Test comment goes here.
HeadTrax	1	1	Woodgrove	Test comment goes here.
Adobe Photoshop	3	3	Adobe	Test comment goes here.

Action:

Mouse Over "All tasks" Icon

Contextual Menu Designs

Exploration 2



Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	 	Test comment goes here.
Windows Defender	1	1	 	<input type="radio"/> Action 1 <input type="radio"/> Action 2 <input type="checkbox"/> <input type="checkbox"/>
HeadTrax	1	1	Woodgrove	<input type="checkbox"/> Action 1
Adobe Photoshop	3	3	Adobe	<input type="checkbox"/> Action 2 <input type="checkbox"/> Action 3 <input type="checkbox"/> Action 4

Action:

Click Collapse Button on Menu

Contextual Menu Designs

Exploration 2



Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1		<input type="radio"/> Action 1 <input type="radio"/> Action 2 <input type="checkbox"/> <input type="checkbox"/>
Windows Defender	1	1		<input type="checkbox"/> Action 1
HeadTrax	1	1	Woodgrove	<input type="checkbox"/> Action 2
Adobe Photoshop	3	3	Adobe	<input type="checkbox"/> Action 3
				<input type="checkbox"/> Action 4

Action:

Mouse Over "Community" Icon

Contextual Menu Designs

Exploration 2





Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	<input type="radio"/> Action 1 <input type="radio"/> Action 2	<input type="checkbox"/> <input type="checkbox"/>	? 	Test comment goes here.
Windows Defender		<input type="checkbox"/> Action 1	> 	Test comment goes here.
HeadTrax		<input type="checkbox"/> Action 2	Woodgrove	Test comment goes here.
Adobe Photoshop		<input type="checkbox"/> Action 3 <input type="checkbox"/> Action 4	Adobe	Test comment goes here.

Action:

Mouse Over "Help" Icon

Contextual Menu Designs

Exploration 2

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	 	Test comment goes here.
Windows Defender	<input type="radio"/> Action 1 <input type="radio"/> Action 2	<input type="checkbox"/> <input type="checkbox"/>	 	Test comment goes here.
HeadTrax		<input type="checkbox"/> Action 1	Woodgrove	Test comment goes here.
Adobe Photoshop		<input type="checkbox"/> Action 2 <input type="checkbox"/> Action 3 <input type="checkbox"/> Action 4	Adobe	Test comment goes here.

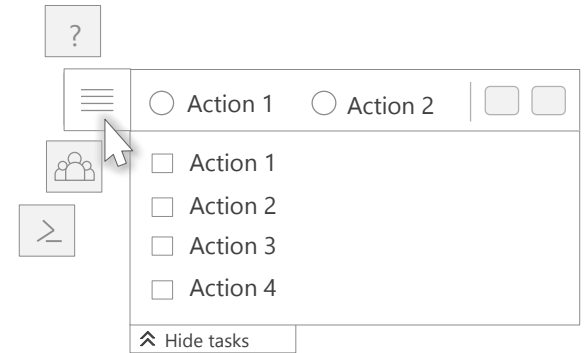
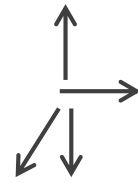
Action:

Mouse Over "Powershell" Icon

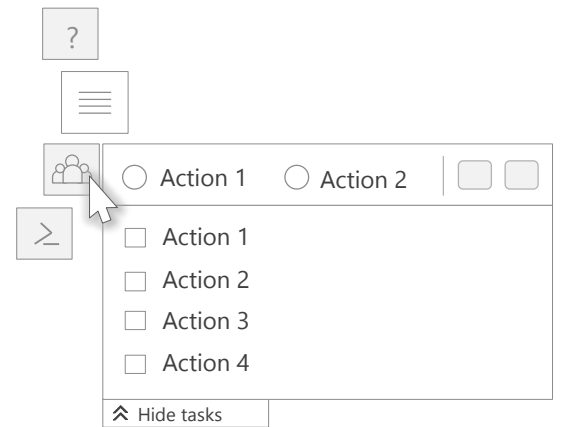
Contextual Menu Designs

Variation

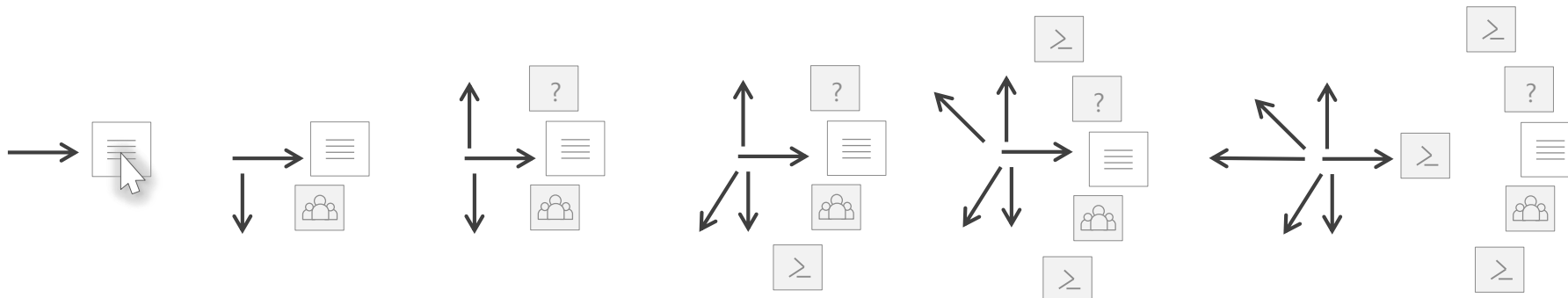
Muscle memory directions



Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1	Microsoft	Test comment goes here.
Windows Defender	1	1	Microsoft	Test comment goes here.
HeadTrax	1	1	Headgrove	Test comment goes here.
Adobe Photoshop	3	3	Adobe	Test comment goes here.



Action: Right Click (by Mouse), Long pressing (Touch), ALT + F10 (Keyboard)



- **Pros**

- Uses muscle memory
- Can be used to show more tasks than a conventional right click menu
- Tasks can be categorized in multiple categories.

- **Cons**

- User Needs 2 actions (Right Click + Mouse Over) to get to frequently used tasks
- Not very scalable beyond 4 categories

Contextual Menu Designs

Floatie/ Mini Bar

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1		ent goes here.
Windows Defender	1	1		Test comment goes here.
HeadTrax	1	1	Woodgrove	Test comment goes here.
Adobe Photoshop	3	3	Adobe	Test comment goes here.



Action:

Mouse Over "Help" Icon

Contextual Menu Designs

Floatie/ Mini Bar

Name	Deployment Types	Deployments	Manufacturer	Comment
eTrust Anti-Virus	2	1		ent goes here.
Windows Defender	1	1		ent goes here.
HeadTrax	1	1		ent goes here.
Adobe Photoshop	3	3		ent goes here.

Action 1 Action 2

Help 1
 Help 2
 Help 3
 Help 4

⤴ Hide tasks

Action:

Mouse Over "Help" Icon

- **Pros**

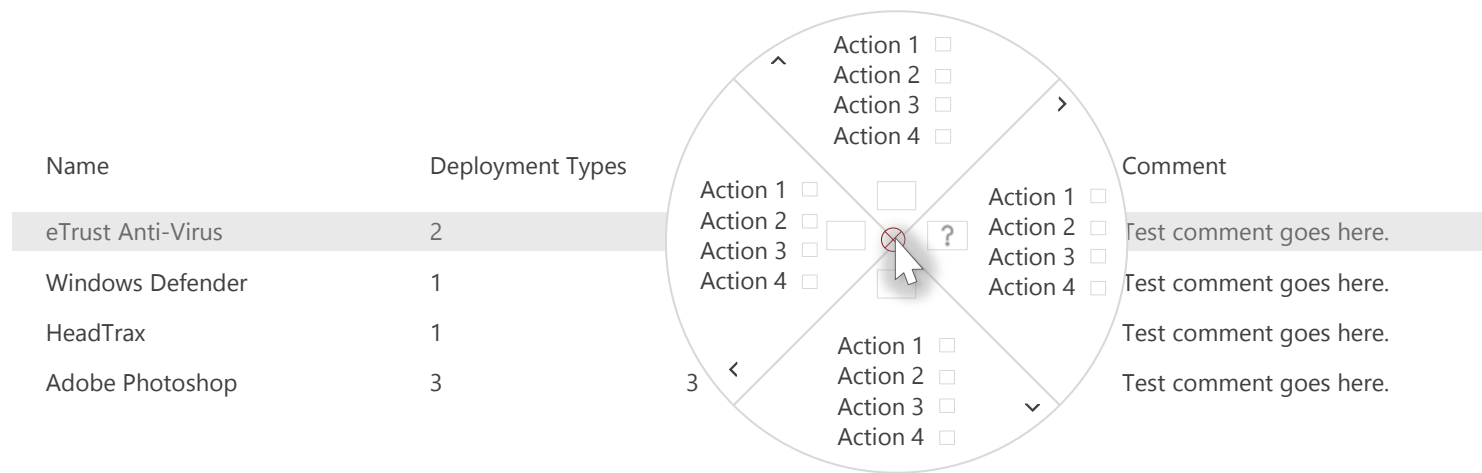
- Modern Look and Feel
- Frequent Tasks can be accessed in one action (Right Click)

- **Cons**

- Not very scalable for large no of tasks.
- Additional click required to see all tasks.

Contextual Menu Designs

Exploration 3



Action: Right Click (by Mouse), Long pressing (Touch), SHIFT + F10 (Keyboard)

- **Pros**

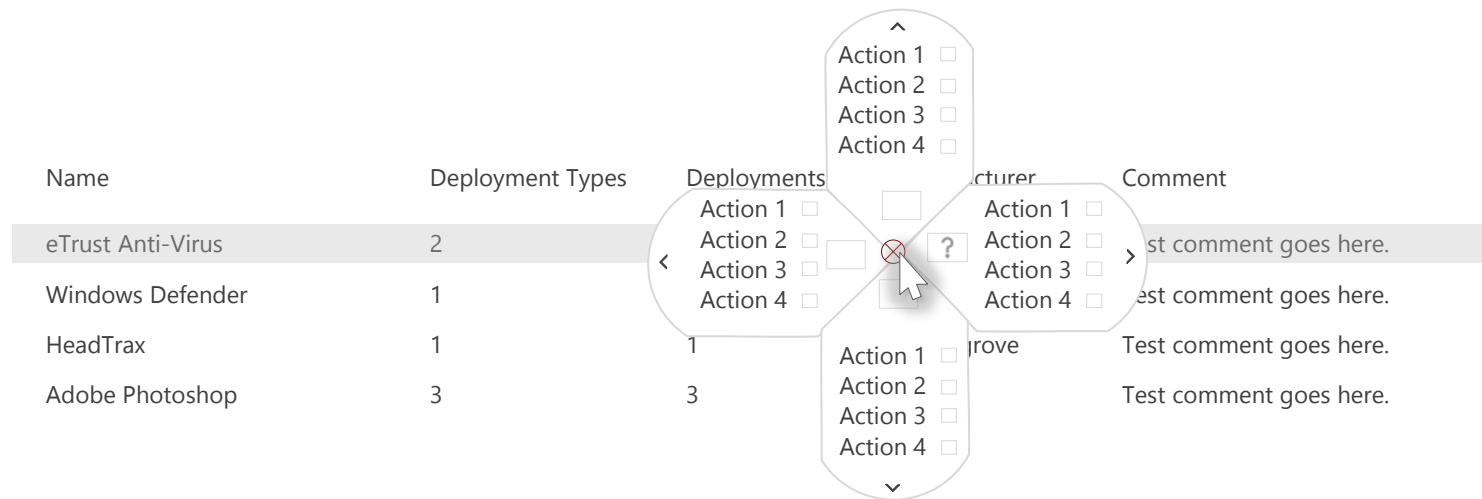
- Uses Muscle Memory

- **Cons**

- Menu has large footprint. Hard to see the object being acted upon.
- Not very scalable beyond 4 categories.

Contextual Menu Designs

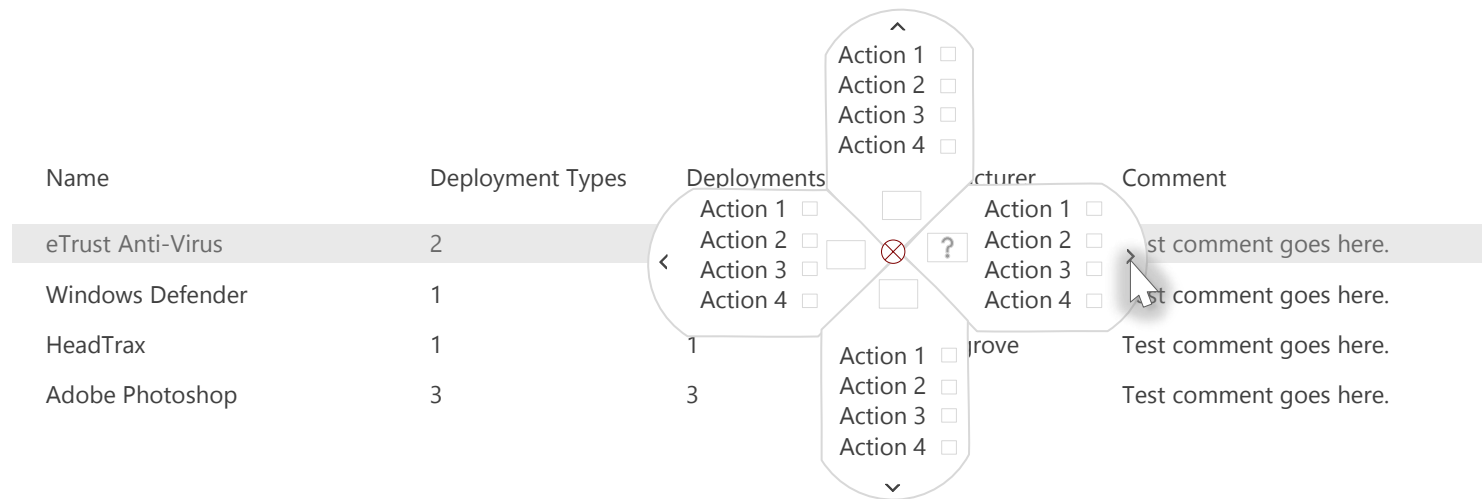
Exploration 4



Action: Right Click (by Mouse), Long pressing (Touch), SHIFT + F10 (Keyboard)

Contextual Menu Designs

Exploration 4

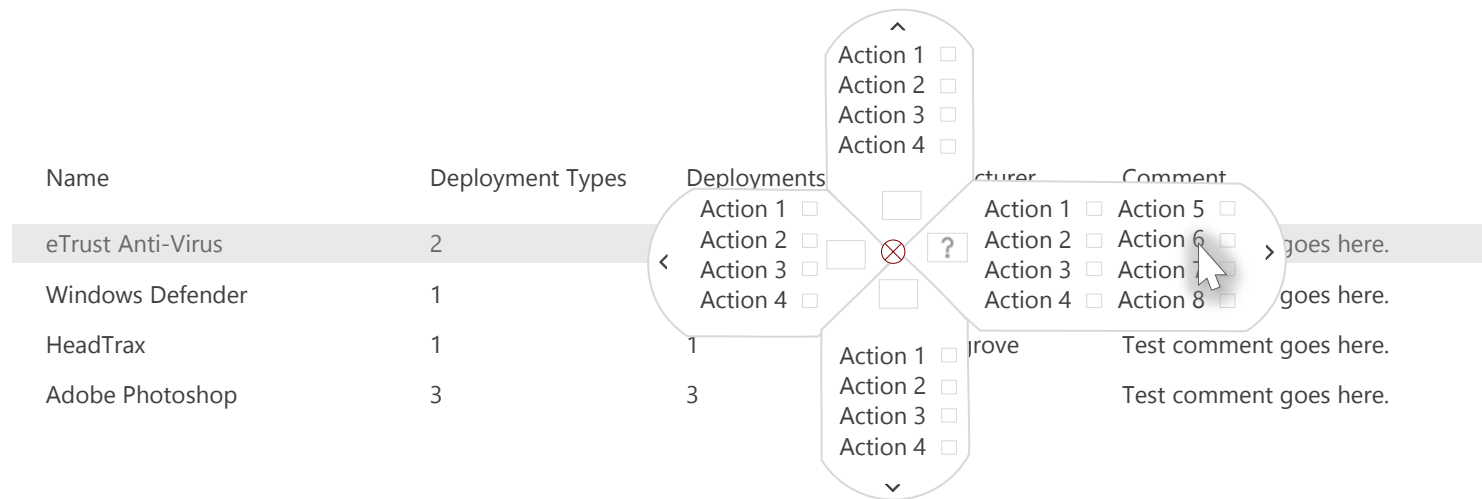


Action:

Click "Expand"

Contextual Menu Designs

Exploration 4



- **Pros**

- Uses Muscle Memory

- **Cons**

- Menu has large footprint. Hard to see the object being acted upon.
- Not very scalable beyond 4 categories.