

Cross-domain retrieval

Query	Real	Clip art	Spatial text	Sketches	Descriptions
			<div>cabinet door</div> <div>wall</div> <div>wall</div> <div>cabinet</div> <div>sink</div> <div>floor</div>	<div>cabinet door</div> <div>wall</div> <div>wall</div> <div>cabinet</div> <div>sink</div> <div>floor</div>	<p>Everything you could need to make dinner, all in one place. Not quite the size of a full kitchen, but everything is there: microwave, refrigerator, and oven.</p> <p>A very small or compact kitchen. These tiny kitchens typically have all of the regular equipment found in their larger counterparts such as a refrigerator, stove, and microwave, but they are often smaller than full sized appliances. The main purpose of these smaller kitchens</p>
			<div>sky</div> <div>window</div> <div>window</div> <div>window</div> <div>building</div>	<div>sky</div> <div>window</div> <div>window</div> <div>building</div>	<p>A structure in which people work. It usually has many floors in which the various floors are rented out to different companies. It usually has vending machines on each floor.</p> <p>I had walked inside a very tall building that had many stories in it. I just faced forward and saw the receptionist desk right in front of me. I see several men and women dressed in suits and their work attire. You could tell this was a serious setting.</p>
<div>sky</div> <div>castle</div> <div>wall</div> <div>road</div>			<div>sky</div> <div>castle</div> <div>wall</div> <div>wall</div> <div>road</div> <div>plants</div>	<div>sky</div> <div>castle</div> <div>wall</div> <div>wall</div> <div>road</div> <div>plants</div>	<p>The building appeared grand from the outside, with its turrets and thick strong walls, but inside the stone air was cold and clammy. The few small windows were all that allowed the sunlight to penetrate the cavernous darkness. There were many old rooms to explore in this ancient</p> <p>This defines the perimeter of an Islamic city with high, fortified walls to keep out intruders. There are often many defenders inside and outside the walls. The residents are relatively safe within the borders of this area.</p>
			<div>sky</div> <div>snowy_mountain</div> <div>crevasse</div>	<div>snowy_mountain</div> <div>sky</div>	<p>A large white covered land mass, it is surrounded by clouds at the top. You can see skiers using trails and ski lifts above the ground. It is winter and many of the cabins at the base of the land mass are occupied. There is a sign that warns be careful of avalanches.</p> <p>Large ice mountains. Usually weather near iceberg is very cold and windy. Huge water bubble sound occurs when the mountain starts melting. Whenever I think of Titanic Ship, I think of too mountain that caused it.</p>
<p>There is a path running through a section of trees. The path is surrounded by these trees. The path is used to navigate through the area of trees. Vehicles travel the path.</p>			<div>trees</div> <div>trees</div> <div>dirt_track</div> <div>wall</div> <div>dirt_track</div>	<div>trees</div> <div>trees</div> <div>dirt_track</div> <div>wall</div> <div>dirt_track</div>	<p>You're driving down a paved narrow-winding path surrounded by trees. There is only one lane in each direction, and visibility is low due to how thick the trees are around you and the curves of the path. The trees seem to go for miles in any direction.</p> <p>I love to hike in the woods. Sometimes it is easy to follow the trail and sometimes it is so full of trees it is hard to see where to go. I love following this surrounded by trees and the sound of birds singing.</p>

1. Castrejon & Aytar et al. "Learning Aligned Cross-Modal Representations from Weakly Aligned Data". In CVPR, 2016.

Trends: Domain Adaptation / Unsupervised Alignment