Topic! Han VIT : Hulti dues Vision 21) 16 June 2083 Teomsteemer Abstract hansperners have eccently gained significourt attention in the Computer vision community. Lowever, the tack of scalability of self attention mechanics weith respect to image size has limited their wide adoption in state of the act vision backtones in this paper we introduce an efficient and scalable aftertion model me call multi axis attention, which consists of two aspects, blocked These disigns choices allones global interactions on aubiteaus input resolutions; neigh only linear complicity. We also present a new acchitectual element by effectively blending are proposed authorition model deithe consultions and accordingly propose a simple mercellial vision backbone dubbe MaxVIT by simply expeating fire basic building block one multiple stages Notably masevit is able to entire network, even in earlier high resolution stages. we demonstrate the effectiveness

of our model on a broad spectrum of Vision tasks on image classifications moix Vi7 achines stock of the act sexuels under various settings: veithout extra data, MarviT attalus 86.57 Imagenet 1k top accuracy with magnet 91k pue to training out model actives 88.94. pridxViT as a backbone deliners detections D-1 as well as visual asthetic assessment ne also ghow that one. proposed moder expuses strong give-Net demonstalling the superior Vision module. landeriors: While elecent tasks in the 2020s nome augualdy shown that com can acheme similar performerne on image secognition, ou work presents a uniqued design that takes advantaged of best of both models woulds - efficient consultion and space attention and demonstrates that a model full on top, normely Marvit, com actierne state & of variety of Arion tasks, and

more importantly scale externely massine scale data our model en tere context of vision Lasts the proposed multi axis
approach can easily extend to
local and global dependencies
in linear time we also cook folloais to studying often toems of spacese attention in higher of menin onal or much modal ernd vision languages.