

Microsoft



## Style-based Point Generator with Adversarial Rendering for Point Cloud Completion











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iments (ShapeNet dataset)												
				Dept	th ma	aps:	view1	view2	view3	view4	view5	view6
1[39]	MSN [	<u>2</u> 1] (	3RNet [35]	Ours	Groundtru	th th	Š.	$\langle \gamma \rangle$	17	N.	R	$\langle \gamma \rangle$
9		3				AtlasNet [11]		$\langle \langle \rangle$	17			
			A.	<b>A</b>		] FCAE	$\gg$	$\langle \langle \rangle$			<b>N</b>	
2			C)	P		FoldingNet [37	29				K	
						1] PCN [39]	$\rightarrow$	$\langle \mathbf{v} \rangle$	1		V	
			$\sim$	*	*	[35] MSN [2	$\diamond \diamond$	$\langle \mathbf{v} \rangle$			N	$\langle \mathbf{V} \rangle$
						GRNet	<u>v.</u>	4	17		N	$\langle \gamma \rangle$
	L			V	7	uth Ours	$\diamond$	$\langle \mathbf{v} \rangle$			R	$\langle \rangle$
sofa	table	vesse	l avg	Ablat	tion:	Groundtr	$\langle \rangle$	$\langle \langle \rangle$		$\nabla $	$\langle \nabla \rangle$	$\langle \rangle$
2.997	2.899	2.619	€ 2.732			I	Ablatio	n	EM	D CD	FPD	
3.003	2.500	2.357	7 2.526		[A]	w/o	n in (	AE	2 06	0 0 606	1 012	
2.829	2.100	$2.11^{2}$	+ 2.282		[B] w	/o Eds	zeConv	in CA	E 1.97	2 0.542	0.692	
2.712	1 977	2.200	$\frac{2.144}{12.142}$		[C] w/	o Stvl	e-based	d Foldir	ng 3.27	4 1.779	3.111	
2.468	1.852	1.87	5 1.987		[D] w	v/o Re	curren	t Refine	2.18	4 0.708	1.856	
2.333	1.729	1.79	) 1.862			C	Durs Fu	ıll	1.86	0.515	0.645	